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2000 REPORT ON OHIO MINERAL INDUSTRIES

WITH
DIRECTORIES OF REPORTING
COAL AND INDUSTRIAL MINERAL OPERATORS





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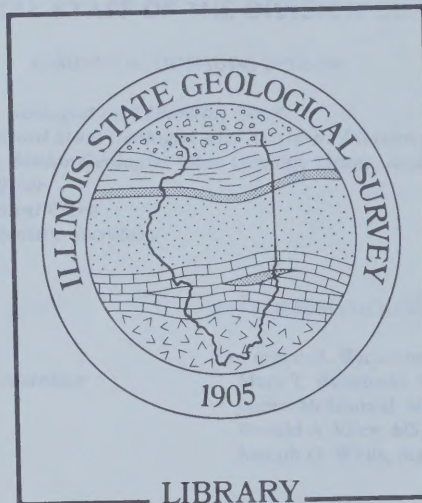
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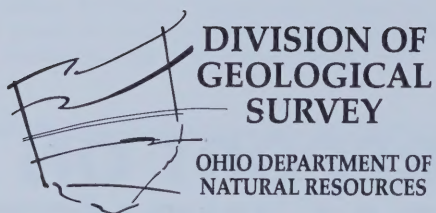
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compiled by

Mark E. Wolfe

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Cover photo: Michael D. Williams

Cover photo: Members of the morning shift exiting the Buckingham Coal Co., Inc., underground coal mine at Glouster, Athens County. Crew members are Wilbur Burke, Bo Butler, Mike Cole, Chris Cosgrave, Tim Decore, Frank Dunwoody, Roger Holbrooks, Kris Papageorge, Don Pettet, John Procacci, Warren Skeenes, Hillard Thacker, Roy Wickham, and Gary Barraclough. The Glouster mine produces from the Pennsylvanian-age Middle Kittanning (No. 6) coal seam. Average coal thickness is 8 feet. The 64 employees produce more than 1 million tons of low- to medium-sulfur coal each year.

PREFACE

In the wake of the appalling terrorist events of September 11, 2001, we need to keep a cautious eye on our natural resources. Self-sufficiency and protection of our domestic mineral, fuel, and water resources for future generations of Americans is crucial as we confront world terrorism. As we work to secure our nation, part of that effort should focus seriously on how our land is used and knowing where our resources are located. Careful consideration should be given to developing land-use plans that ensure reserves of valuable mineral resources will be available for our children and grandchildren to use.

If, through a variety of decisions about land use, we render nearby aggregate resources like sand and gravel or limestone and dolomite unavailable for extraction, the costs to develop and maintain our infrastructure will soar—further weakening our economy.

If we do not find environmentally acceptable ways to utilize our abundant remaining coal and oil and gas resources (see this report's cover photo), we risk being held hostage by foreign energy suppliers.

If we do not locate and characterize our aquifers through careful, three-dimensional geologic mapping, we will not know how to best protect our ground-water supplies from the threat of terrorist acts.

All the employees of the ODNR, Division of Geological Survey extend their heartfelt sympathy to the victims and affected families of the September 11, 2001, tragedies. We join with President Bush and Governor Taft in the struggle to free our world of terrorism. We pledge to work hard to identify and secure our precious natural resources, and make geology serve the public good.

Thomas M. Berg
State Geologist & Chief

FOREWORD

The mineral industries of Ohio began the new millennium in a positive way, continuing to provide the quality and quantity of commodities the marketplace demands. Ohio coal production stabilized in 2000 after a significant decline in 1999. Early estimates from the Energy Information Administration indicate Ohio coal production may increase more than 10 percent in 2001. Industrial-mineral production in Ohio declined slightly in 2000 from near-record levels, most likely a reflection of the slowing state and national economies. Higher prices for oil and gas resulted in a 13.6 percent increase in the number of wells drilled in Ohio during 2000.

The 2000 U.S. Census highlights several significant population trends in Ohio. Columbus and surrounding counties of central Ohio gained nearly 200,000 new residents between 1990 and 2000. Delaware County, north of Columbus, led the state with a 64.3 percent population increase since 1990. The Ohio counties surrounding Cincinnati also had substantial increases, adding more than 110,000 residents. Warren County, northeast of Cincinnati, was second in the state with a 39.0 percent population increase since 1990. One of the more surprising aspects of the 2000 census was the healthy population increase in several rural Ohio counties: Noble County, +24 percent; Brown County, +20.9 percent; Holmes County, +18.6 percent; Vinton County, +15.4 percent; Knox County, +14.8 percent; Clinton County, +14.5 percent; and Highland County, +14.4 percent. Several Ohio cities and villages experienced explosive growth: Hudson, +335 percent; Pataskala, +236 percent; Hilliard, +105 percent; Mason, +92 percent; Dublin, +92 percent; Springboro, +88 percent; and Twinsburg, +77 percent. These trends will likely continue and may possibly accelerate in the future. Census data can be a powerful tool for predicting demand for the commodities produced by the Ohio mineral industry. (For more information on the 2000 Census in Ohio, visit the Ohio Department of Development's Web site: <<http://www.odod.state.oh.us/>>.)

This year's article, "Gypsum in Ohio," is the first update on Ohio's gypsum-mining industry in 38 years and, unfortunately, may be the last such review. The only remaining gypsum mine in Ohio was shut down in August 2001 by BPB-Celotex, ending 180 years of gypsum mining in the state. Factors that led to the closure include reduced demand for gypsum wallboard and intense competition from plants in surrounding states that use flue-gas-desulfurization gypsum, which is a waste by-product of primarily coal-fired power-generating stations.

The assistance that Jeff McLean of Buckingham Coal Co., Inc., gave us in obtaining the photographs for the cover and interior of the *Report* is greatly appreciated. It was amazing to see a 10-foot-plus-thick coal seam in Ohio, and going into an underground mine with ample head room was a new experience. It is encouraging that a major new mine in Ohio is able to open, given the challenges the industry faces.

Your suggestions for further improvements in the *Report on Ohio mineral industries* are always welcome. The Ohio Division of Geological Survey has numerous resources to assist the mineral industry and is always available to discuss geologic conditions across the state.

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GYPSUM IN OHIO

by Mark E. Wolfe, Geologist
Ohio Division of Geological Survey

INTRODUCTION

Gypsum is a very common sulfate mineral, hydrous calcium sulfate ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$), developed principally in sedimentary rocks of chemical origin. It has unique fire-retardant and soil-conditioning properties. The ancient Egyptians and Romans discovered and used gypsum as early as 2000 B.C. There are records of old Roman laws that required builders to use gypsum plaster during construction to prevent fire from spreading (Celotex Corp. handout for 2000 Ohio Mineral Industries and the Environmental Teacher's Workshop). The name comes from *gypbos*, Greek for plaster (Chesterman and Lowe, 1985).

Plaster of paris is a powdered material made from gypsum. The term "plaster of paris" originates from the early exploitation of the vast gypsum deposits near Paris, France. To make plaster of paris, the gypsum is ground up and heated at 374-392°F until about three-fourths of the water evaporates. This process is called calcining. The resulting material is then powdered and packaged. When water is added to the plaster of paris, the gypsum molecules absorb the water and recrystallize, and the material hardens or "sets."

Gypsum may take several forms. A massive, pure-white form of gypsum is known as alabaster. Satin spar is a fibrous gypsum that has a pearly opalescence. Selenite is a clear, glasslike variety.

Some of the finest selenite crystals in the world came from the banks of Meander Creek near Ellsworth in Mahoning County, Ohio (Carlson, 1991, p. 30). "Text-book" crystals, 2½ inches in length, have been found at this classic locality. Host beds are unconsolidated blue-gray to brown silt and clay that were deposited in glacial meltwater lakes marginal to the Wisconsin ice sheet. The gypsum likely formed as water flowed through nearby limestone and pyrite-containing coal, which provided the needed calcium and sulfate. When the oversaturated sediments dried out, the gypsum crystals were precipitated. Today, selenite crystals can be found in the north bank of West Branch Mahoning River in West Branch State Park (unfortunately, collecting is not permitted). After the bank has been washed by rain, the selenite crystals lie loose on the surface and can be quite striking as they glitter in the sunshine (Carlson, 1991, p. 30).

Gypsum has been found elsewhere in Pleistocene glacial lake deposits of northeastern Ohio. In northwestern Ohio, massive beds and nodules of gypsum are present in Silurian-age rocks of Ottawa, Erie, Sandusky, Lucas, Wood, and Wyandot Counties. Gypsum also occurs as veins in Permian-age sandstones of Washington County; as a white efflorescence on Mississippian- and Pennsylvanian-age sandstones in Portage and Summit Counties; and as crystals and rosettes in Pennsylvanian-age shales of Athens and Vinton Counties, Mississippian-age shales of Pike County,



In-pit crusher and conveyor system at the BPB-Celotex gypsum quarry in Ottawa County. Photo by Michael D. Williams.

and Devonian-age shales of Delaware County (Carlson, 1991, p. 110-113). Gypsum has been mined commercially in Ottawa and Erie Counties.

FORMATION OF GYPSUM

Gypsum is classified as an evaporite, a chemical sedimentary rock deposited from aqueous solutions as a result of extensive or total evaporation of the solvent. Other common evaporite minerals are salt and anhydrite. Anhydrite is chemically similar to gypsum—it is calcium sulfate but lacks water. The name "anhydrite" means "without water."

In 1877, the Swedish geologist Ochsenius presented a concept of evaporite (gypsum-anhydrite-salt-potash) origin that he developed from studying the Stassfurt deposits of Germany. He proposed that these deposits had been produced by the intense evaporation of normal seawater in an arid environment in a restricted lagoon. The lagoon was separated from the open ocean by a bar. Periodic influx of seawater across the bar added more salts, and a gradual subsidence of the lagoon allowed for thick accumulations of evaporites (Bates, 1960, p. 201-210). In Ohio, an arid environment and extensive reef development during Middle Silurian time (about 420 million years ago) led to hypersalinity of the waters in restricted basins. These dense, hypersaline waters then sank to the bottom of the basin, precipitating evaporite minerals such as salt, gypsum, and anhydrite (Hansen, 1983, p. 3).

Movement of water was probably not just one way, but also involved subsurface reflux, which is the backflow of concentrated brines in ground water (Blatt and others, 1972, p. 486-488). Return flow of the concentrated brine takes place due to the density contrast of the heavy brine and fresher water in the underlying sediments. Permeability of these sediments is a key factor: if they are highly

permeable, subsurface reflux will take place at low concentrations and the body of water will never become sufficiently concentrated to produce evaporites. Salt-water springs also may supply saline water, allowing conditions to remain constant for longer periods of time and relatively thick accumulations of evaporates to form.

Another explanation is the sabkha model, which hypothesizes that the evaporite minerals were deposited on an extensive tidal flat that was periodically inundated by hypersaline waters from a restricted lagoon (*sabkha* is an Arabic word meaning "shallow lagoon"). The presence of shallow-water depositional features such as desiccation cracks, erosion surfaces, and flat-pebble conglomerates are cited as evidence for this environment of deposition (Hansen, 1983, p. 3). The Persian Gulf is a present-day analog.

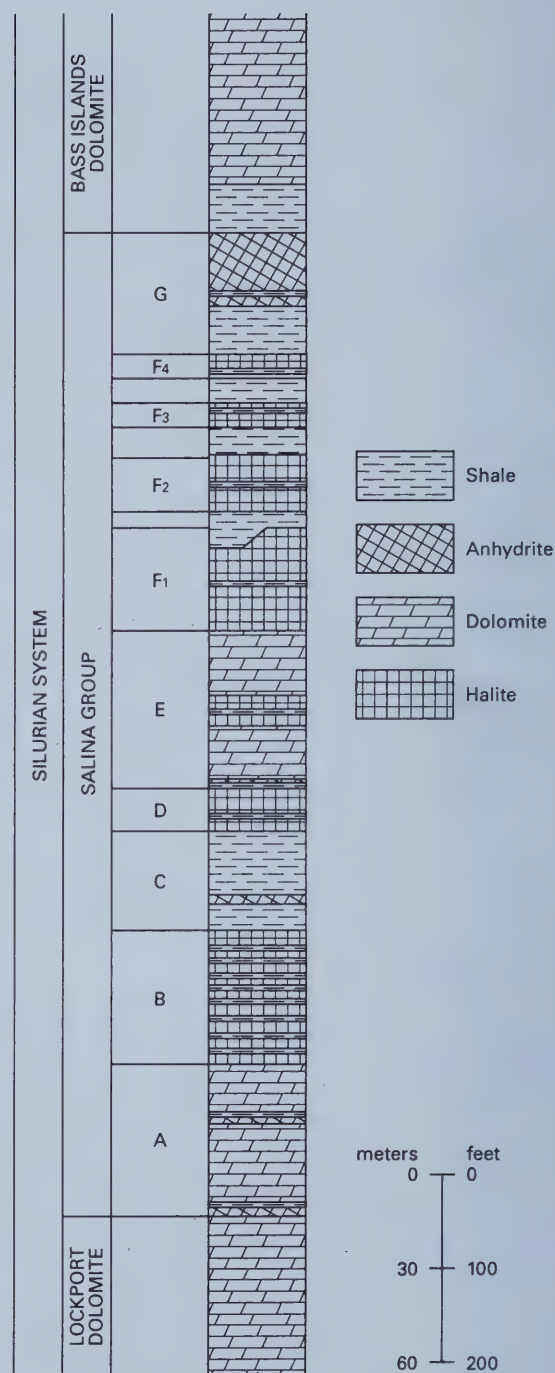
There is substantial evidence that gypsum in northwestern Ohio results from the hydration of anhydrite in the zone of weathering in which surface and ground water flow (Janssens, 1977). The commercial deposits of northwestern Ohio are found near the surface. At depths below 150 feet, the amount of gypsum decreases until anhydrite predominates. This situation suggests a gypsum-anhydrite cycle. One hypothesis (Livchak, 1993) is that after the anhydrite or gypsum was deposited in a shallowing-upward, prograding, arid, coastal tidal flat or sabkha similar to the Persian Gulf, a burial-uplift-erosion event took place. Burial pressures and temperatures forced the water out of the gypsum, converting it to anhydrite; later uplift and erosion allowed the anhydrite to absorb water and convert back to gypsum. Gypsum thus is found near the surface and anhydrite at depth. The gypsum is either overlain or enclosed by impermeable shale beds that protect the gypsum from leaching downward.

GEOLOGY OF GYPSUM IN OHIO

Commercial gypsum production in Ohio is from the Silurian Salina Group, specifically the Salina F unit (Janssens, 1977, see figure). Gypsum occurs as nodules, lenses, and massive beds (Livchak, 1993). Individual gypsum beds may be as much as 5½ feet thick. The gypsum is interbedded with argillaceous dolomite and dolomitic shale, or it may be disseminated throughout. At a depth of approximately 120 feet, there is a transition to anhydrite. Normally, no gypsum is present below 150 feet in depth.

The localization of economic gypsum deposits in eastern Ottawa, eastern Sandusky, and western Erie Counties is determined by unique geologic factors (Janssens, 1977, p. 36). Salina rocks were tilted, and part of the Salina was truncated by erosion prior to Devonian time (and again in Recent time). Hydration by ground water transformed anhydrite to gypsum. The gypsum is protected by overlying or enclosing shales.

The Salina B unit may contain economically viable gypsum deposits in east-central Ottawa and eastern Sandusky Counties (Janssens, 1977, p. 37). The B unit is



Composite section of the Salina Group and associated rocks in Ohio. Modified from Hansen (1983).

protected by impermeable shale that has restricted the intake of ground water to the updip exposed edge. Janssens (1977, p. 38) indicates that the Salina A unit is a potential exploration target in Antrim and Crane Townships, Wyandot County. Two gypsum beds less than 5 feet thick are present 20 and 60 to 80 feet above the Lockport Dolomite. Gilbert noted in 1873 that two 3-foot-thick beds of gypsum crop out on West Sister Island, now a National Wildlife Refuge, approximately 18 miles northwest of the gypsum-producing area of Ottawa County.

USES OF GYPSUM

The major use of gypsum in the United States is in the manufacture of wallboard. Other uses include plaster (plaster of paris), caulking compounds, cement, additive to concrete to retard the setting rate, fertilizer/soil conditioner, filler in prescription medication, and a stiffening agent in bakery products such as frostings (Weisgarber, 1997, p. 2-3). All of Ohio's gypsum is used for the manufacture of wallboard.

Gypsum is an unusual mineral because it is fire retardant—it repels fire with its own “sprinkler system” (Celotex Corp. handout for 2000 Ohio Mineral Industries and the Environment Teacher's Workshop). As the gypsum wallboard surface is heated to 212°F (the boiling point of water), the water is released from the gypsum crystal and dissipates the heat. After about 15 minutes of exposure to the intense heat of fire, the bound water in gypsum will be released to a depth of 1/4 inch.

HISTORY OF GYPSUM MINING IN OHIO

Gypsum was first recognized in Ohio by two boatmen in 1821 along the north shore of Sandusky Bay in Ottawa County. Colonel Samuel M. Lockwood paid \$10 for the white rock, then rushed to the U.S. Public Lands Office in Delaware, Ohio, and purchased 101 acres at \$0.25/acre (Lintner, 1944, p. 14). A gypsum quarry had been established and a combination mill and dock erected by early 1822 (Ohio Division of Geological Survey, 1959, p. 44). The Portage Plaster Company, formed in 1825 by Col. Lockwood and William Townsend, continued to enlarge the original operations, even building its own fleet of steamers and scows to transport plaster. The major early use of Ohio gypsum was as a fertilizer (“land-plaster”) (Winchell, 1874, p. 234). The town of Gypsum in Portage Township took its name from the quarries.

As the population of Ohio grew during the mid-1800's, the gypsum industry prospered. By 1856, B. F. Smith had

taken charge of the former Portage Plaster Company. Smith was an innovator. Although his attempt at cutting the gypsum into building stones was a complete failure (gypsum weathers too easily), Smith began the successful manufacture of calcined plaster in 1860 (Lintner, 1944, p. 16).

By 1881, a quarry operated by Marsh and Company at Gypsum was producing several thousand tons of unusually pure gypsum annually. It produced both land-plaster and calcined plaster for use in the building industry. In 1885, the Pittsburgh Plate Glass Company of Pittsburgh, Pennsylvania, contracted with John W. Lockwood to supply approximately 6,000 tons annually to be used in the manufacture of glass (Orton, 1888, p. 701). The nearby Lake Shore and Michigan Southern Railway, as well as Lake Erie, provided easy access to distant markets (Orton, 1888, p. 696). The average price paid for land-plaster was \$4.09 per ton, a significant amount for the late 1800's (Orton, 1888, p. 701).

The first of several underground gypsum mines was opened in 1901 in Portage Township, Ottawa County, by Marsh and Company (Lintner, 1944, p. 18). In 1901, additional room-and-pillar mines were being operated by the Granite Wall Plaster Company and in 1902 by Consumers Gypsum Company. In 1902, Marsh and Company and the Granite Wall Plaster Company were sold to the United States Gypsum Company.

Tremendous growth in the Ohio gypsum industry occurred in the early 20th century. Annual gypsum production increased from 112,202 tons in 1906 to 268,261 tons in 1913 (Industrial Commission of Ohio, 1913, p. 47).

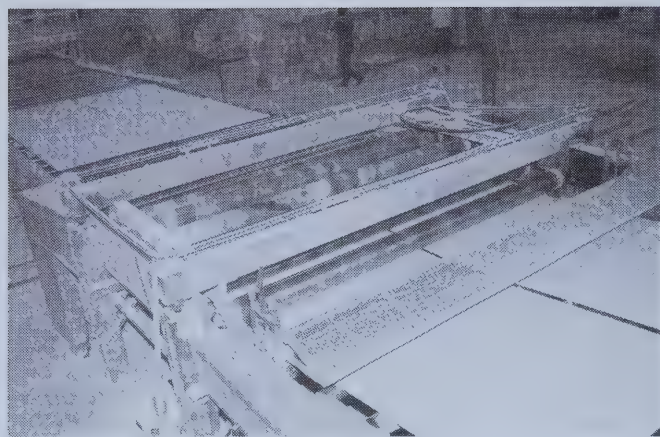
The Kelly Plaster Company operated an underground mine in Margaretta Township, Erie County, from 1912 until 1918. In the 1920's, the American Cement Plaster Division of the Beaver Products Company, Inc., the American Gypsum Company, and United States Gypsum were the major gypsum producers in Ohio (Bownocker and Stout, 1928, p. 76). Gypsum production increased to greater than 500,000 tons by 1923 and reached an all-time



Front-end loader mining gypsum ore at the BPB-Celotex quarry in Ottawa County. The ore contains approximately 40-50 percent gypsum by weight. Photo by Michael D. Williams



Gypsum ore before it enters the heavy-media separation system at the BPB-Celotex operation in Ottawa County. Gypsum content is improved to 80 percent by weight following heavy-media separation. Photo by Michael D. Williams



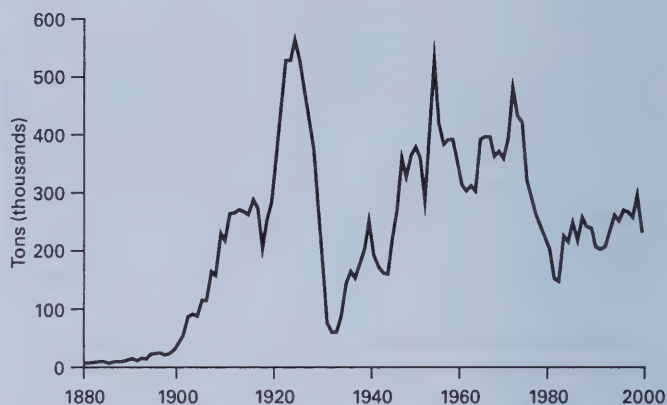
Conveyor system and gypsum processing plant at the BPB-Celotex operation in Ottawa County. Photo by Michael D. Williams.

peak of 562,928 tons in 1928 (Kefauver, 1962). The Celotex Corporation purchased all land and plant facilities from American Gypsum in 1939 and changed from underground mining to an open-pit operation in 1946 (Charles Johnson, Celotex Corp., personal commun., April 28, 2000). By the mid-1940's, consolidation in the U.S. gypsum industry had reduced the active operators in Ohio to United States Gypsum and the Celotex Corporation.

After enduring some lean production years during the Depression of the 1930's and World War II, annual gypsum production in Ohio had rebounded to over 300,000 tons by 1948. Stable production of greater than 300,000 tons was the hallmark of the Ohio gypsum industry throughout the 1950's, 1960's, and early 1970's (see graph). The 500,000-ton threshold was again surpassed in 1955 and was nearly reached in 1972. United States Gypsum's underground mine flooded in the late 1970's. The nearby Celotex quarry was forced to construct a coffer dam to allow surface operations to continue (Charles Johnson, personal commun., Celotex Corp., April 28, 2000). Since 1978, Celotex Corporation has been the sole company mining gypsum in Ohio. In 2000, the United Kingdom company BPB plc. acquired Celotex's wallboard and ceiling tile business. Annual production has been relatively steady at approximately 250,000 tons. Estimated cumulative gypsum production in Ohio through 2000 totals 27,900,000 tons.

GYPSUM PROCESSING

After the gypsum-bearing rock is mined at the BPB-Celotex Ohio operation, an in-pit crusher reduces it to 2-3 inches. A conveyor transports the rock to the plant, where the gypsum is separated from dolomite and shale by heavy-media separation. Gypsum has a specific gravity of 2.31 and floats on top of a liquid that has a specific gravity of 2.47, while the other constituents sink and are removed. Heavy-media separation improves the gypsum concentration from approximately 50 percent when mined to greater than 80 percent.



Annual production of gypsum in Ohio from 1881 to 2000. From the annual *Ohio Division of Mines report*, 1958-1980, and the annual *Ohio Division of Geological Survey Report on Ohio mineral industries*, 1981-2001.

The purified gypsum is then ground to a very fine powder and heated in a large mill to approximately 350°F. Under these conditions the material is changed chemically to $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$, calcined gypsum plaster. When this material is then mixed with water, it sets into a hard rocklike substance.

The calcined gypsum is used to make wallboard products. Wallboard manufacture begins by feeding two rolls of paper continuously onto a series of rollers. The edges of the bottom paper are folded to form a box. A slurry mixture of calcined gypsum, water, fibers, starches, and accelerators is continuously fed into the paper box, then the second sheet of paper covers the filled box. The two sheets of paper bond to the core because the gypsum crystallizes in long needles that grow into the paper. After the board is formed and set, it is cut to the required length and dried to remove excess water. The BPB-Celotex plant can produce approximately 120 board feet per minute of wallboard. BPB-Celotex ships to several states and Ontario, Canada (Larry Schultz, Celotex Corp., personal commun., June 28, 2000).

CURRENT AND FUTURE TRENDS

The national gypsum industry is currently undergoing major changes that affect the Ohio gypsum industry. The acquisition of Celotex by BPB plc in 2000 continued a trend seen in other industrial minerals in which multinational companies are expanding through acquisition and consolidation. Several new large wallboard plants recently have been completed in Kentucky, Pennsylvania, and Indiana, substantially increasing capacity and competition in the eastern U.S. Many of the new plants use flue gas desulfurization (FGD) gypsum, which is a waste by-product of primarily coal-fired power-generating stations. The gypsum is produced when lime is mixed with the sulfur dioxide in the stacks. The FGD is normally disposed in landfills; using FGD gypsum to manufacture wallboard is both low-cost and environmentally friendly. Two disadvantages of FGD versus natural gypsum for the manufac-

ture of wallboard are the presence of fly ash, an impurity found in FGD, and smaller crystal growth compared to natural gypsum (Charles Johnson, Celotex Corp., personal commun., June 28, 2000). The BPB-Celotex gypsum mine and wallboard plant were shut down in August 2001, ending 180 years of gypsum mining in Ohio.

ACKNOWLEDGMENTS

I extend my sincere appreciation to Eugene Van Voorhis, curator of the Ottawa County Historical Museum, for helping me gain access to the excellent records concerning the early gypsum industry in Ottawa County. I also thank Charles Johnson, plant manager of BPB-Celotex in Port Clinton, for his review of this article and for providing invaluable information about gypsum and the process of making wallboard.

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Aerial view of the surface facilities at the underground coal mine at Glouster in Athens County operated by the Buckingham Coal Co., Inc. The train load-out facility is in the foreground; offices, shops, and the entrance to the mine can be seen in the background. View is to the northwest. Photograph provided by Jeff McLean of Buckingham Coal Co., Inc.



Train load-out facility at the Buckingham Coal Co., Inc., underground coal mine at Glouster, Athens County. Photo by Michael D. Williams.

2000 OHIO MINING ACTIVITIES IN BRIEF

Reports were filed in 2000 for 187 coal-mining operations, including 3 mines with their own coal-washing facility. Coal production was reported from 113 of these 187 operations. Reports also were filed for 22 separate coal-washing plants and associated facilities. Of 714

industrial-mineral-mining operations known to be operating in 2000, 488 operations were active. A total of 49 mines reported production of multiple mineral commodities. Of this total, 39 mines reported production of multiple industrial minerals, including 8 mines reporting production of multiple industrial minerals and coal; 10 mines reported production of coal and one industrial mineral. There were 456 new wells completed for oil and gas in 2000, 363 of these wells were productive and 93 were dry.

The total value¹ of coal was \$563,500,922 in 2000; the value of oil and gas was \$575,540,010; and the total value¹ of all nonfuel industrial minerals was \$781,874,079 in 2000.

¹Includes reported and estimated values. Some operations reporting sales did not report a value for those sales. A countywide- or statewide-average price per ton was calculated for each industrial mineral commodity based on sales for which the value was reported. A countywide average price per ton was calculated for coal based on sales for which the value was reported and method of production. These calculated averages were used to estimate the value of the sales for which the actual values were not reported.

TABLE 1.—2000 Mineral sales and production in Ohio

Commodity	Sales ¹	Production ²	Value ³	Change in value from 1999 (percent)
Coal	22,821,252 tons	22,478,548 tons	\$563,500,992	-12.4
Limestone and dolomite	79,940,672 tons	82,296,206 tons	\$366,805,671	+1.5
Sand and gravel	55,734,489 tons	55,860,375 tons	\$252,435,626	-4.5
Salt	5,084,823 tons	4,248,693 tons	\$97,774,836	+5.5
Sandstone and conglomerate	2,579,442 tons	2,692,758 tons	\$45,112,852	+8.6
Clay	2,074,652 tons	2,074,728 tons	\$10,119,746	-21.5
Shale	2,535,225 tons	2,577,473 tons	\$7,540,061	-28.7
Gypsum	230,137 tons	230,137 tons	\$2,071,233	-21.9
Peat	2,004 tons	2,000 tons	\$14,054	-80.7
Gas	⁴	98,550,667 MCF ⁵	\$399,622,955	+60.4
Oil	⁴	6,573,881 barrels	\$175,917,056	+82.0

¹Includes material for captive use.

²The production figures for the industrial minerals are estimates. Many operators do not know actual production. Some operators report estimates, other operators do not report any production. For those operators who do not report production, production is assumed to equal sales.

³The FOB value of industrial minerals sold was estimated for those mines which failed to report this information and for those producing material for captive use. These estimates were calculated using a countywide- or statewide-average price per ton calculated on reported FOB values.

⁴Figure not available.

⁵Thousand cubic feet.

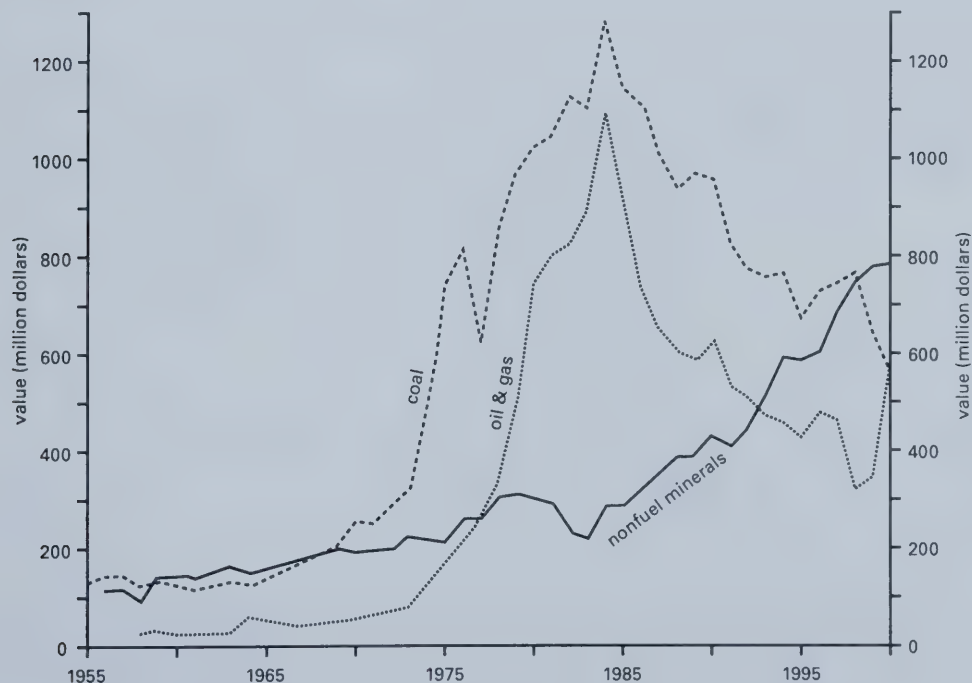


FIGURE 1.—Value of coal, nonfuel minerals, and oil and gas in Ohio.

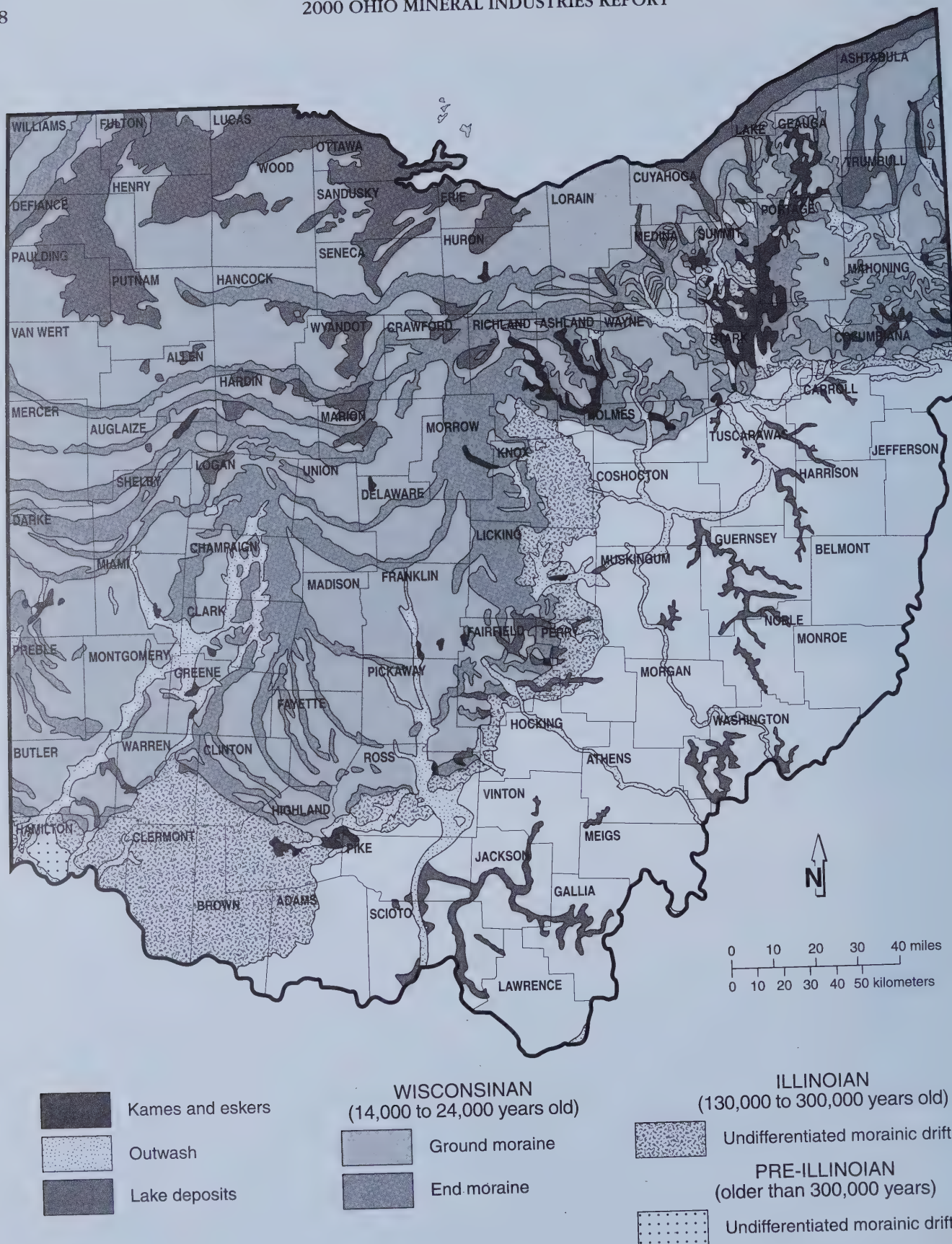


FIGURE 2.—Generalized map of the glacial deposits of Ohio. Continental glaciers advanced over the Ohio landscape several times during the Ice Age. These glaciers deposited unconsolidated materials on top of the bedrock over nearly two-thirds of the state. Most of Ohio's sand and gravel production comes from kames, eskers, and outwash, which were deposited by meltwater from the glaciers. Other glacially derived industrial minerals in Ohio include peat and clay.



FIGURE 3.—Generalized geologic map of Ohio. Mineral production occurs throughout Ohio and from every geologic system from the Cambrian to the Permian. Coal, limestone and dolomite, sandstone and conglomerate, shale, clay, gypsum, salt, and oil and gas are produced from Ohio bedrock.

COAL

Coal was produced by 44 companies at 113 mines in 21 Ohio counties during 2000. Production decreased 0.3 percent from 1999, totaling 22,478,548 tons in 2000; 10,543,870 tons (46.9 percent of total production) were produced at 104 surface mines, and 11,943,678 tons (53.1 percent of total production) were produced at 9 underground mines. In 2000, tonnage from underground production exceeded tonnage from surface production, continuing a trend that began in 1995. Of 26 coal-producing states, Ohio ranked 14th in 2000. The top five states, in descending order of production, are Wyoming (339.3 million tons), West Virginia (159.6 million tons), Kentucky (132.1 million tons), Pennsylvania (75.1 million tons), and Texas (49.5 million tons). These five states produced 70.3 percent of the nation's coal in 2000. Ohio produced 2.1 percent of the nation's coal in 2000. The top five coal-consuming states, in descending order of consumption, are Texas, Indiana, Ohio, Illinois, and Pennsylvania. These five states used 30.8 percent of the total coal consumed by all 50 states in 2000.²

In comparison to 1999, 1 fewer mine reported production of less than 50,000 tons, and 2 fewer mines produced between 50,000 and 500,000 tons. There was a net decrease of 3 mines in 2000.

The five leading counties for 2000 production were Belmont, Meigs, Harrison, Vinton, and Jackson Counties; these counties produced 70.5 percent of the 2000 total production. A total of 22,821,252 tons of coal were sold in 2000; total value³ was \$563,500,992. The average price per ton of all coal sold was \$24.69; surface-mined coal

averaged \$20.01 per ton and underground-mined coal averaged \$28.73.

In underground mining, 64.6 percent of the coal was produced by longwall mining and 35.4 percent was mined by continuous miner; no coal was produced by conventional mining in 2000. In surface operations, 95.4 percent of the coal was mined by conventional surface methods, and 4.6 percent was auger mined.

The Pittsburgh (No. 8) coal was the most heavily mined seam, followed by the Clarion (No. 4A), Middle Kittanning (No. 6), Meigs Creek (No. 9), and Lower Freeport (No. 6A) seams. Coal produced from these five seams constituted 80.9 percent of the total 2000 production.

A total of 13,726,524 tons of washed coal was reported in 2000. Reports from 11 coal-washing plants indicate an average 41.3 percent loss in washing.

Trucking was the primary means of coal disposition, carrying 46.4 percent of the total sales. Conveyor belts carried 28.1 percent, rail transported 22.9 percent, and water carried 2.6 percent of the coal sold in 2000. A total of 600,556 tons (2.6 percent) of the coal produced was reported as stored.

The total average annual employment reported in 2000 was 2,717 employees; 1,640 of these were production employees. Production employees worked an average of 151 days producing coal in 2000. The average annual wage earned by all production employees was \$47,433 based on those employees for whom wages were reported. The average annual wage for surface-mine production employees was \$39,171, and the average annual wage for underground-mine production employees was \$53,898. Wages earned by all employees totaled \$141,083,616 in 2000.

²Information from U.S. Department of Energy, Energy Information Administration.

³Includes reported and estimated values. See footnote 1, p. 7.

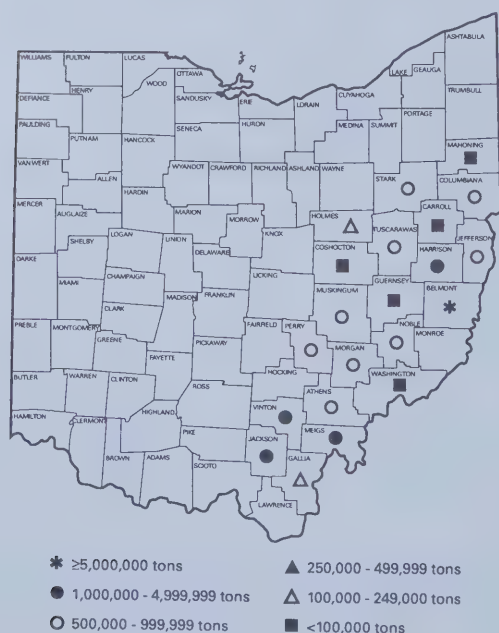


FIGURE 4.—Coal production in Ohio in 2000, by county.

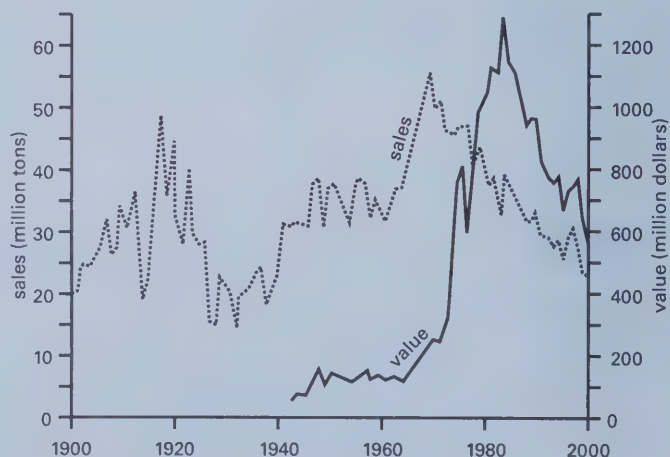


FIGURE 5.—Sales and value of coal in Ohio.

TABLE 2.—2000 Ohio coal production and sales by county, in descending order of production

County	Production (short tons)	Sales (short tons)
Belmont	5,880,307	5,846,383
Meigs	3,819,766	3,819,766
Harrison	3,021,273	3,396,582
Vinton	1,926,446	1,926,446
Jackson	1,196,190	1,196,190
Perry	918,775	918,775
Morgan	826,283	826,283
Muskingum	704,784	704,784
Stark	674,518	674,517
Jefferson	669,865	669,865
Tuscarawas	659,978	659,979
Noble	567,065	567,065
Athens	543,824	549,781
Columbiana	521,622	523,374
Gallia	202,761	202,761
Holmes	153,074	153,074
Washington	57,289	57,289
Coshocton	54,530	48,140
Carroll	46,670	46,670
Guernsey	21,148	21,148
Mahoning	12,380	12,380
21 counties	22,478,548	22,821,252

TABLE 3.—2000 Ohio coal production by production-size group and change from 1999

Production-size group	2000		Change from 1999 (short tons)
	Number of mines reporting	Production (short tons)	
1,000,000 tons and over	5	11,745,022	+300,589
500,000 to 999,999 tons	5	3,356,886	-377,286
250,000 to 499,999 tons	6	1,989,334	+381,511
100,000 to 249,999 tons	19	3,158,365	-514,004
50,000 to 99,999 tons	17	1,125,918	-8,519
25,000 to 49,999 tons	15	525,162	-27,644
Under 25,000 tons	46	577,861	+183,990
TOTAL	113	22,478,522	-61,363

TABLE 4.—2000 Ohio coal production by county and mining method

County ¹	All methods (short tons)	Total number of mines	Underground				Surface			
			Number of underground mines reporting	Production (short tons)			Number of surface mines reporting	Production (short tons)		
				Total underground	Longwall	Continuous miner		Total surface	Strip	Auger
Athens	543,824	1	1	519,237		519,237	1 ²	24,587	24,587	
Belmont	5,880,307	20	1	4,618,077	4,076,160	541,917	19	1,262,230	1,114,876	147,354
Carroll	46,670	3					3	46,670	46,670	
Columbiana	521,622	6	1	352,752		352,752	5	168,870	139,299	29,571
Coshocton	54,530	3					3	54,530	54,530	
Gallia	202,761	2					2	202,761	202,761	
Guernsey	21,148	2					2	21,148	16,458	4,690
Harrison	3,021,273	9 ³	1	1,728,169		1,728,169	8 ³	1,293,104	1,206,896	86,208
Holmes	153,074	1					1	153,074	153,074	
Jackson	1,196,190	5					5	1,196,190	1,196,190	
Jefferson	669,865	9	3	398,879		398,879	6	270,986	261,056	9,930
Mahoning	12,380	3					3	12,380	12,380	
Meigs	3,819,766	2	2	3,819,766	3,217,576	602,190				
Morgan	826,283	1 ⁴					1 ⁴	826,283	781,368	44,915
Muskingum	704,784	2					2	704,784	704,784	
Noble	567,065	6					6	567,065	553,206	13,859
Perry	918,775	2					2	918,775	918,775	
Stark	674,518	11					11	674,518	673,344	1,174
Tuscarawas	659,978	20					20	659,978	515,054	144,924
Vinton	1,926,446	5 ³	1 ⁵	497,798	415,846	81,952	5 ³	1,428,648	1,428,648	
Washington	57,289	1					1	57,289	57,289	
TOTAL	22,478,548	113	9	11,934,678	7,709,582	4,225,096	104	10,543,870	10,061,245	482,625

¹Production from mines operating in more than one county was evenly split between the counties involved unless a by-county breakdown was provided by the operator.²This mine was both a surface and an underground operation and is not included in the total number of mines.³Does not include mines extending into this county from adjoining counties.⁴This mine extends into Morgan County from Noble County and is not included in the total number of mines.⁵This mine extends into Vinton County from Meigs County and is not included in the total number of mines.

TABLE 5.—2000 Ohio coal production by county and month

County ¹	Production (short tons)												
	Total annual	January	February	March	April	May	June	July	August	September	October	November	December
Athens	543,824	3,321			13,239	6,847	7,994	47,284	106,079	85,574	98,086	83,352	92,048
Belmont	5,880,307	438,872	430,163	417,632	448,490	492,002	528,208	583,247	526,942	465,321	524,197	447,568	577,665
Carroll	46,670	1,853	2,115	2,454	3,057	4,056	1,526	1,790	1,586	5,913	7,576	6,712	8,032
Columbiana	521,622	45,553	50,043	63,245	52,445	46,547	49,756	30,671	46,241	40,263	41,521	35,364	19,973
Coshocton	54,530	7,251	6,099	7,747	6,056	3,093	3,092	3,189	3,189	3,190	813	814	9,997
Gallia	202,761	21,110	11,523	15,248	11,610	19,343	16,868	12,581	18,173	17,932	13,759	14,608	30,006
Guernsey	21,148	3,906	3,289	3,302	4,572	2,883	1,872	1,270	54				
Harrison	3,021,273	268,237	269,558	266,426	208,359	251,917	228,108	219,173	262,120	235,475	272,920	275,933	263,047
Holmes	153,074	14,782	14,782	14,782	12,371	12,371	12,371	11,694	11,694	11,695	12,177	12,177	12,178
Jackson	1,196,190	93,190	87,681	87,675	90,399	103,645	94,454	91,950	121,034	111,894	105,017	108,109	101,142
Jefferson	669,865	59,743	62,961	56,694	51,037	58,598	53,511	49,698	55,799	51,755	52,563	55,577	61,929
Mahoning	12,380		1,470	674	1,634	910	1,208	1,186		1,273		1,917	2,108
Meigs	3,819,766	343,501	343,716	194,480	312,468	371,990	308,290	342,327	371,399	287,833	386,275	307,579	249,908
Morgan	826,283	46,074	49,787	70,458	71,035	77,998	64,534	73,006	85,895	83,147	66,029	80,790	57,530
Muskingum	704,784	60,664	48,336	43,779	66,408	64,288	63,936	38,663	64,673	63,356	81,877	57,911	50,893
Noble	567,065	29,976	33,890	38,930	43,441	51,438	49,142	53,327	56,301	53,636	50,298	56,071	50,615
Perry	918,775	68,568	57,650	73,037	81,071	89,656	71,901	74,738	85,389	66,755	69,903	79,977	100,130
Stark	674,518	54,763	50,920	54,294	40,908	57,944	55,522	57,083	69,489	65,281	58,598	56,948	52,768
Tuscarawas	659,978	64,674	64,876	67,522	52,719	46,428	52,947	51,214	51,004	47,091	48,635	58,052	54,816
Vinton	1,926,446	155,190	166,913	155,772	152,986	150,645	179,248	165,948	167,232	155,744	179,753	160,332	136,683
Washington	57,289	861	1,124	2,251	919	4,655	5,038	5,667	5,820	7,994	7,383	8,154	7,423
TOTAL	22,478,548	1,782,089	1,756,896	1,636,402	1,725,224	1,917,254	1,849,526	1,915,706	2,110,113	1,861,122	2,077,380	1,907,945	1,938,891

¹Production from mines operating in more than one county was evenly split between the counties involved unless a by-county breakdown was provided by the operator.

TABLE 6.—2000 Ohio coal production

County ¹	Production									
	Total	Upper Mercer (No. 3A)	Brookville (No. 4)	Winters	Clarion (No. 4A)	Lower Kittanning (No. 5)	Strasburg (No. 5A)	Middle Kittanning (No. 6)	Lower Freeport (No. 6A)	
Athens	543,824							540,503		
Belmont	5,880,307									
Carroll	46,670									
Columbiana	521,622		3,294			18,898		2,884		
Coshocton	54,530					19,500		35,030		
Gallia	202,761							191,161		
Guernsey	21,148							17,536		
Harrison	3,021,273								1,728,169	
Holmes	153,074					76,537		76,537		
Jackson	1,196,190				419,620	423,678		345,279		
Jefferson	669,865									
Mahoning	12,380		9,240			3,140				
Meigs	3,819,766				3,819,766					
Morgan	826,283									
Muskingum	704,784							559,330	145,454	
Noble	567,065									
Perry	918,775					429,839		488,936		
Stark	674,518		173,772			253,874		246,872		
Tuscarawas	659,978	201	40,399			229,546	1,465	211,820		
Vinton	1,926,446		387,942	181,789	802,899	331,275		125,382		
Washington	57,289									
TOTAL	22,478,548	201	614,647	181,789	5,042,285	1,786,287	1,465	2,841,270	1,873,623	

¹Production from mines operating in more than one county was evenly split between the counties involved unless a by-county breakdown was provided by the operator.



An Ohio Central unit train being loaded at the Buckingham Coal Co., Inc., mine in Athens County. The fully automated train load-out facility can load 2,300 tons of coal each hour and has a sampling system and belt scales. Photo by Michael D. Williams.

by county and seam

(short tons)

Upper Freeport (No. 7)	Mahoning (No. 7A)	Harlem	Pittsburgh (No. 8)	Pomeroy-Redstone (No. 8A)	Meigs Creek (No. 9)	Waynesburg (No. 11)	Washington (No. 12)	County ¹
3,321								Athens
1,716			4,789,101		845,614	230,673	14,919	Belmont
7,766	488,780	44,954						Carroll
								Columbiana
								Coshocton
11,600								Gallia
3,612			645,086	163,168	484,850			Guernsey
								Harrison
7,613								Holmes
								Jackson
184	398,695		221,474	49,512				Jefferson
					826,283			Mahoning
								Meigs
								Morgan
					567,065			Muskingum
								Noble
								Perry
176,547								Stark
97,159					57,289			Tuscarawas
								Vinton
								Washington
309,518	887,475	44,954	5,655,661	212,680	2,781,101	230,673	14,919	TOTAL

2000 OHIO MINERAL INDUSTRIES REPORT

TABLE 7.—2000 Disposition of Ohio coal, by county

County ¹	Number of mines	Disposition ¹ (short tons)						Stored
		Total ²	Rail	Water	Truck	Conveyor	Unspecified/ other	
Athens	1	549,781	457,636		92,145			
Belmont	20	5,846,383	2,789,324	518,902	2,538,157			191,515
Carroll	3	46,670			46,670			
Columbiana	6	523,374			523,374			475
Coshocton	3	48,140			48,140			
Gallia	2	202,761			44,198	158,563		
Guernsey	2	21,148			21,148			
Harrison	9 ³	3,396,582	1,975,001	75,027	1,345,050		1,504	401,543
Holmes	1	153,074			153,074			
Jackson	5	1,196,190			789,617	406,573		
Jefferson	9	669,865			669,865			
Mahoning	3	12,380			12,380			
Meigs	2	3,819,766				3,819,766		
Morgan	1 ⁴	826,283				826,283		7,023
Muskingum	2	704,784			704,784			
Noble	6	567,065			312,136	254,929		
Perry	2	918,775			918,775			
Stark	11	674,517			674,517			
Tuscarawas	5 ³	659,979			659,979			
Vinton	6	1,926,446			980,012	946,434		
Washington	1	57,289			57,289			
TOTAL	113	22,821,252	5,221,961	593,929	10,591,310	6,412,548	1,504	600,556

¹Tonnage of coal shipped from mines operating in more than one county was evenly split between the counties involved and type(s) of disposition reported unless a by-county breakdown was provided by the operator.

²Does not reflect tonnage stored. Reflects tonnage sold and shipped from mine.

³Does not include mines extending into this county from adjoining counties.

⁴This mine extends into Morgan County from Noble County and is not included in the total number of mines.

TABLE 8.—2000 Rail shipments of Ohio coal, by county of origin and carrier

County	Number of mines	Shipments (short tons)				
		Total	CSX	Wheeling & Lake Erie	Norfolk Southern	Ohio Central
Athens	1	457,636				457,636
Belmont	1	2,789,324		2,789,324		
Harrison	1	1,975,001	535,165		51,932	1,387,904
TOTAL	3	5,221,961	535,165	2,789,324	51,932	1,845,540

TABLE 9.—2000 Washed Ohio coal

		Raw coal (short tons)	Washed coal ¹ (short tons)	Loss in washing (short tons)	Loss in washing (percent)	Percent of all washed coals
By type of mining	From surface mines	3,439,498	2,928,179 ²	511,319	14.9	21.3
	From underground mines	19,934,828	10,798,345	9,136,483	45.8	78.7
	TOTAL	23,374,326	13,726,524	9,647,802	41.3	100.0
By seam	Upper Mercer (No. 3A)	201	164	47	23.4	<0.1
	Brookville (No. 4)	201,917	161,276	40,641	20.1	1.2
	Winters	139,257	102,548	36,709	26.4	0.7
	Clarion (No. 4A)	10,956,054	4,745,799	6,210,255	56.7	34.6
	Lower Kittanning (No. 5)	429,515	376,751	52,764	12.3	2.7
	Middle Kittanning (No. 6)	620,820	535,036	85,784	13.8	3.9
	Lower Freeport (No. 6A)	1,643,851	1,428,976	214,875	13.1	10.4
	Upper Freeport (No. 7)	72,550	58,051	14,499	20.0	0.4
	Mahoning (No. 7A)	191,036	133,728	57,038	30.0	1.0
	Pittsburgh (No. 8)	7,746,325	5,010,982	2,735,343	35.3	36.5
	Meigs Creek (No. 9)	1,372,800	1,173,213	199,587	14.5	8.5
	TOTAL	23,374,326	13,726,524	9,647,802	41.3	100.0

¹Total washed coal figures for 2000 reflect figures as reported by Ohio's coal preparation plants. These figures do not necessarily represent only 2000 production. In 2000, 22,478,548 tons of coal were produced, of which 12,411,834 tons (55.2%) were reported as washed by Ohio's mine operators. Coal not designated as washed or unwashed by Ohio's mine operators was assumed to be unwashed.

²The raw tonnage (before washing) and/or the clean tonnage (after washing) of coal was estimated for those mines which failed to report this information. These estimates were calculated using a statewide-average loss-in-washing percentage based on raw/washed coal values for type of mining and for seam deemed to be reliable.

TABLE 10.—2000 Dollar value of coal at mine by county and mining method

County ¹	Total				Underground				Surface			
	No. of mines	Tonnage sold (short tons)	Value at mine ² (dollars)	Per ton average (dollars)	No. of mines	Tonnage sold (short tons)	Value at mine ² (dollars)	Per ton average (dollars)	No. of mines	Tonnage sold (short tons)	Value at mine ² (dollars)	Per ton average (dollars)
Athens	1	549,781	\$9,527,705	\$17.33	1	525,194	\$9,101,612	\$17.33	1 ³	24,587	\$426,093	\$17.33
Belmont	20	5,846,383	111,087,259	19.00	1	4,584,865	87,112,435	19.00	19	1,261,518	23,974,824	19.00
Carroll	3	46,670	1,291,765	27.68					3	46,670	1,291,765	27.68
Columbiana	6	523,374	10,509,962	20.08	1	352,752	7,000,000	19.84	5	170,622	3,509,962	20.57
Coshocton	3	48,140	961,000	19.96					3	48,140	961,000	19.96
Gallia	2	202,761	4,953,451	24.43					2	202,761	4,953,451	24.43
Guernsey	2	21,148	391,416	18.51					2	21,148	391,416	18.51
Harrison	9 ⁴	3,396,582	70,974,626	20.90	1	2,083,436	45,273,064	21.73	8 ⁴	1,313,146	25,701,562	19.57
Holmes	1	153,074	3,060,480	19.99					1	153,074	3,060,480	19.99
Jackson	5	1,196,190	26,274,083	21.96					5	1,196,190	26,274,083	21.96
Jefferson	9	669,865	14,849,461	22.17	3	398,879	9,481,736	23.77	6	270,986	5,367,725	19.81
Mahoning	3	12,380	338,554	27.35					4	12,380	338,554	27.35
Meigs	2	3,819,766	171,889,470	45.00	2	3,819,766	171,889,470	45.00				
Morgan	1 ⁵	826,283	18,004,707	21.79					1 ⁵	826,283	18,004,707	21.79
Muskingum	2	704,784	14,077,520	19.97					2	704,784	14,077,520	19.97
Noble	6	567,065	9,924,807	17.50					6	567,065	9,924,807	17.50
Perry	2	918,775	18,217,414	19.83					2	918,775	18,217,414	19.83
Stark	11	674,517	10,876,141	16.12					11	674,517	10,876,141	16.12
Tuscarawas	20	659,979	11,913,966	18.05					21	659,979	11,913,966	18.05
Vinton	5 ⁶	1,926,446	53,575,159	27.81	1 ⁶	497,798	22,400,910	45.00	5 ⁴	1,428,648	31,174,249	21.82
Washington	1	57,289	802,046	14.00					1	57,289	802,046	14.00
TOTAL	113	22,821,252	\$563,500,992	\$24.69	9	12,262,690	\$352,259,227	\$28.73	104	10,558,562	\$211,241,765	\$20.01

¹Sales reported from mines operating in more than one county were evenly split between the counties involved unless a by-county breakdown was provided by the operator.

²The FOB value of coal sold was estimated for those mines which failed to report this information. These estimates were calculated using a countywide-average price per ton by mining method based on reported FOB values deemed to be reliable.

³This mine was both a surface and an underground operation and is not included in the total number of mines.

⁴Does not include mines extending into this county from adjoining counties.

⁵This mine extends into Morgan County from Noble County and is not included in the total number of mines.

⁶This mine extends into Vinton County from Meigs County and is not included in the total number of mines.

TABLE 11.—2000 Ohio coal-mine employment¹, by occupational group and month

Occupational group	Number of employees												
	Total annual	January	February	March	April	May	June	July	August	September	October	November	December
All production workers	1,640	1,641	1,668	1,665	1,639	1,597	1,615	1,623	1,616	1,623	1,630	1,676	1,689
Underground mines	920	923	926	899	910	875	919	923	906	924	922	950	957
Surface mines	720	718	742	766	729	722	696	700	710	699	708	726	732
Supervisory, technical, and clerical	469	478	480	483	485	473	475	464	458	455	456	456	467
Central preparation plant, central shop, etc.	398	385	392	405	393	399	400	397	402	391	406	402	399
Reclamation	32	38	33	22	28	28	29	32	29	34	36	32	37
Other ²	178	176	177	178	178	183	182	178	172	174	179	178	178
TOTAL	2,717	2,718	2,750	2,753	2,723	2,680	2,701	2,694	2,677	2,677	2,707	2,744	2,770

¹Employment was estimated for mines not reporting employment.²"Other" includes all employees who are not categorized in any other employment category, such as mobile equipment operators, mechanics, or general outside workers.TABLE 12.—2000 Ohio coal-mine production employment¹, by county and month

County ²	Number of employees												
	Monthly average	January	February	March	April	May	June	July	August	September	October	November	December
Athens	44	20	20	20	21	36	49	54	58	62	61	63	59
Belmont	382	379	383	371	373	367	374	385	380	379	367	402	418
Carroll	5	3	3	3	3	3	3	3	3	5	10	10	15
Columbiana	40	42	42	42	39	39	39	39	39	39	39	39	39
Coshocton	5	9	9	9	9	3	2	2	2	2	2	2	4
Gallia	13	15	14	14	12	12	11	12	12	12	12	12	12
Guernsey	5	9	9	11	9	9	7	6	2	0	0	0	0
Harrison	210	205	226	219	207	212	218	212	202	212	214	216	218
Holmes	11	11	11	11	11	11	11	11	11	11	11	11	11
Jackson	77	78	78	78	78	76	75	73	76	75	78	78	77
Jefferson	61	60	62	60	62	61	60	56	60	59	63	63	63
Mahoning	4	4	4	4	4	4	4	4	4	4	4	4	4
Meigs	362	398	396	394	392	353	350	347	346	345	344	341	342
Morgan	37	25	25	39	41	38	37	40	40	40	40	40	40
Muskingum	50	52	50	49	47	47	46	50	51	50	50	51	52
Noble	33	27	25	28	31	32	36	35	33	33	36	36	38
Perry	49	53	54	54	54	51	54	47	48	46	43	43	45
Scioto	0	0	0	0	0	0	0	0	0	0	0	0	0
Stark	46	53	53	41	41	41	41	46	46	48	47	47	46
Tuscarawas	46	42	47	50	44	45	42	37	43	40	50	59	48
Vinton	155	154	154	163	157	153	152	160	154	155	153	154	152
Washington	5	2	3	5	4	4	4	4	6	6	6	5	6
TOTAL	1,640	1,641	1,668	1,665	1,639	1,597	1,615	1,623	1,616	1,623	1,630	1,676	1,689

¹Employment was estimated for mines not reporting employment.²For those operations reporting activity in more than one county, employment was evenly split (to the nearest whole employee) between the counties involved unless a by-county breakdown was provided by the operator.

TABLE 13.—2000 Ohio coal-mine employment¹ in central preparation plants, central shops, etc., by county and month

County ²	Number of employees												
	Monthly average	January	February	March	April	May	June	July	August	September	October	November	December
Belmont	38	38	37	39	36	38	37	35	39	37	42	39	37
Columbiana	11	11	11	11	11	11	11	11	11	11	11	11	11
Coshocton	25	25	25	27	26	26	26	25	25	25	25	25	25
Gallia	2	1	1	1	2	2	2	2	2	2	2	2	2
Guernsey	1	1	1	1	1	1	1	1	1	0	0	0	0
Harrison	32	36	36	34	29	29	30	33	31	24	32	32	33
Jackson	9	12	12	12	9	9	9	6	6	6	7	7	7
Jefferson	4	4	4	4	4	4	4	4	4	4	3	3	3
Mahoning	2	2	2	2	2	2	2	2	2	2	2	2	2
Meigs	123	121	123	123	121	121	121	122	126	125	125	124	123
Morgan	51	34	40	51	50	55	55	54	54	54	54	54	54
Perry	6	6	6	6	6	6	6	6	6	6	6	6	6
Scioto	28	27	27	27	27	28	28	28	28	28	28	28	28
Tuscarawas	13	14	14	14	13	13	13	13	13	13	13	13	13
Vinton	55	53	53	53	56	54	55	55	54	54	56	56	55
TOTAL	398	385	392	405	393	399	400	397	402	391	406	402	399

¹Employment was estimated for mines not reporting employment.²For those operations reporting activity in more than one county, employment was evenly split (to the nearest whole employee) between the counties involved unless a by-county breakdown was provided by the operator.TABLE 14.—2000 Ohio coal-mine employment¹ in supervisory, technical, and clerical positions, by county and month

County ²	Number of employees												
	Monthly average	January	February	March	April	May	June	July	August	September	October	November	December
Athens	3	3	3	3	3	3	5	3	3	3	3	3	3
Belmont	99	93	94	99	98	102	100	102	99	98	96	96	110
Carroll	4	4	4	4	4	4	4	4	4	4	4	4	5
Columbiana	10	10	10	10	10	10	10	9	9	9	9	9	9
Coshocton	16	17	17	17	17	15	15	15	15	15	15	15	16
Guernsey	1	1	1	1	1	1	1	1	1	1	1	1	1
Harrison	33	32	33	33	33	33	34	34	34	34	34	34	32
Holmes	1	1	1	1	1	1	1	1	1	1	1	1	1
Jackson	15	17	17	17	15	15	15	14	14	14	15	15	15
Jefferson	7	7	7	7	7	7	7	6	6	6	6	6	6
Mahoning	4	3	4	3	4	3	4	3	4	3	4	3	4
Meigs	170	179	179	180	180	171	171	169	167	165	164	160	160
Morgan	22	23	23	22	22	22	22	22	22	22	22	22	22
Muskingum	4	3	3	3	6	6	6	3	3	3	3	3	3
Noble	11	12	10	10	11	12	12	12	11	11	11	11	12
Perry	4	4	4	4	4	4	4	3	3	3	3	3	3
Scioto	8	10	10	8	8	8	8	8	8	8	8	8	8
Stark	6	7	7	6	6	6	6	6	6	6	6	6	6
Tuscarawas	7	6	7	7	7	6	6	6	6	6	9	14	7
Vinton	43	45	45	47	47	43	43	42	41	42	41	41	43
Washington	1	1	1	1	1	1	1	1	1	1	1	1	1
TOTAL	469	478	480	483	485	473	475	464	458	455	456	456	467

¹Employment was estimated for mines not reporting employment.²For those operations reporting activity in more than one county, employment was evenly split (to the nearest whole employee) between the counties involved unless a by-county breakdown was provided by the operator.

TABLE 15.—2000 Ohio surface coal-mine reclamation employment¹, by county and month

County ²	Number of employees												
	Monthly average	January	February	March	April	May	June	July	August	September	October	November	December
Belmont	5	3	3	5	5	5	5	5	5	5	5	7	8
Carroll	0	0	0	0	0	0	0	1	1	0	0	0	0
Columbiana	3	4	4	4	6	6	6	2	2	2	2	2	2
Guernsey	2	0	0	0	0	0	0	0	1	6	6	6	5
Harrison	4	4	1	1	2	2	2	5	4	5	8	4	4
Jefferson	0	0	0	0	0	0	1	1	1	0	0	0	0
Morgan	11	21	20	9	9	9	9	10	10	10	10	10	10
Noble	4	6	5	3	3	3	3	3	3	3	3	3	3
Stark	2	0	0	0	2	2	2	2	2	2	2	0	4
Tuscarawas	1	0	0	0	1	1	1	3	0	1	0	0	1
TOTAL	32	38	33	22	28	28	29	32	29	34	36	32	37

¹Employment was estimated for mines not reporting employment.²For those operations reporting activity in more than one county, employment was evenly split (to the nearest whole employee) between the counties involved unless a by-county breakdown was provided by the operator.TABLE 16.—2000 Ohio coal-mine employment¹ in other positions², by county and month

County ³	Number of employees												
	Monthly average	January	February	March	April	May	June	July	August	September	October	November	December
Belmont	53	51	51	51	51	53	51	51	51	52	57	56	56
Carroll	0	0	0	0	0	0	0	0	0	1	1	1	1
Columbiana	7	7	7	7	7	7	7	6	6	6	6	6	6
Harrison	24	25	25	25	24	24	25	25	24	24	24	24	24
Jackson	17	15	15	15	17	17	17	18	18	18	17	17	17
Jefferson	3	3	3	3	3	3	3	3	3	3	3	3	3
Meigs	47	50	50	50	50	50	50	47	44	44	44	44	44
Morgan	3	1	2	2	2	4	4	4	4	4	4	4	4
Noble	1	0	0	1	0	1	1	1	1	1	1	1	1
Scioto	6	6	6	6	6	6	6	6	6	6	6	6	6
Stark	5	5	5	5	5	5	5	4	5	5	5	5	5
Vinton	12	13	13	13	13	13	13	13	10	10	11	11	11
TOTAL	178	176	177	178	178	183	182	178	172	174	179	178	178

¹Employment was estimated for mines not reporting employment.²"Other positions" includes all employees who do not belong in any other employment category, such as mobile equipment operators, mechanics, or general outside workers.³For those operations reporting activity in more than one county, employment was evenly split (to the nearest whole employee) between the counties involved unless a by-county breakdown was provided by the operator.

TABLE 17.—2000 Wage and salary payments to Ohio coal-mine employees, by county and occupational group

County ¹	Wage and salary payments (nearest whole dollar) ²						
	All occupations	Underground production employees	Surface production employees	Central preparation plant, central shop, etc.	Supervisory, technical, and clerical	Reclamation	Other
Athens	\$2,306,488	\$2,183,425	\$69,212		\$53,851		
Belmont	27,985,327	12,610,596	3,717,209	\$3,032,692	5,682,610	\$151,104	\$2,791,116
Carroll	298,352		199,578		74,561	6,056	18,157
Columbiana	1,660,997	150,000	391,468	472,396	376,578	77,627	192,928
Coshocton	2,169,724		75,044	1,123,075	971,605		
Gallia	627,522		549,417	78,105			
Guernsey	303,254		140,865	22,947	52,973	86,469	
Harrison	16,182,006	7,408,401	3,583,156	1,601,049	2,174,233	72,455	1,342,712
Holmes	414,007		372,606		41,401		
Jackson	4,205,642		2,930,642	275,000	500,000		500,000
Jefferson	3,071,565	1,560,521	917,565	171,692	302,293	3,973	115,521
Mahoning	277,506		152,982	54,711	69,813		
Meigs	47,188,829	22,844,287		6,193,526	14,744,170		3,406,846
Morgan	7,266,269		2,038,156	2,567,354	1,902,866	488,554	269,339
Muskingum	2,585,000		2,350,000		235,000		
Noble	2,378,240		1,419,819		724,593	150,730	83,098
Perry	2,153,163		1,784,259	220,000	148,904		
Scioto	1,984,274			907,194	453,183		623,897
Stark	2,331,093		1,778,733		268,403	38,343	245,614
Tuscarawas	2,212,929		1,608,731	404,836	186,620	12,742	
Vinton	13,266,559	2,828,609	3,944,050	2,393,409	3,577,946		522,545
Washington	214,870		180,000		34,870		
TOTAL	\$141,083,616	\$49,585,839	\$28,203,492	\$19,517,986	\$32,576,473	\$1,088,053	\$10,111,773

¹For those operations reporting activity in more than one county, wage and salary payments were evenly split between the counties involved unless a by-county breakdown was provided by the operator.

²For those operations reporting only a total wage and salary payment to all workers, an equal pay rate was assumed for all employees. In cases where quarterly employment was reported but wage and salary payments were not, wage and salary payments for that quarter were estimated from reported payments in the other quarters to arrive at the annual figure. For mines reporting employment and no wage and salary payments, wage and salary payments were estimated using a countywide or statewide average.



Train loader Don Abrams loading a rail car at the Buckingham Coal Co., Inc., facility adjacent to its underground coal mine in Athens County. Photo by Michael D. Williams.

INDUSTRIAL MINERALS

Industrial minerals, other than mineral fuels, were produced in a total of 86 Ohio counties in 2000. The combined value of all nonfuel industrial minerals sold in 2000 was \$781,874,079.

In 2000, 437 companies operated 714 industrial-mineral mining operations. Industrial minerals were produced or sold by 320 companies from 488 active operations. Thirty-three of the 320 companies produced more than one industrial mineral from 39 operations. Six companies produced coal and more than one industrial mineral from 8 operations. Twenty-seven companies produced multiple industrial-mineral commodities (no coal) from 31 operations. The remaining 287 companies produced one industrial-mineral commodity.

Of the 39 multiple industrial-mineral operations (including those operations producing coal and more than one industrial-mineral commodity), 8 operations produced sand and gravel and clay; 7 operations produced clay and shale; 4 operations produced limestone and clay; 4 operations produced limestone, clay, and shale; 4 operations produced limestone and sand and gravel; 3 operations

produced sandstone and sand and gravel; 2 operations produced limestone and shale; 2 operations produced sandstone and clay; 1 operation produced sand and gravel, limestone, and clay; 1 operation produced sand and gravel, sandstone, and clay; 1 operation produced sandstone, clay, and shale; 1 operation produced sand and gravel and shale; and 1 operation produced limestone and sandstone.

The 241 multiple industrial-mineral-commodity production employees worked an average of 201 days in 2000. Total wages of \$12,123,796 were paid to a total of 387 employees (241 production employees and 146 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$31,328.

The total average annual employment reported in 2000 for industrial mineral operations was 5,481 people (3,810 production employees and 1,671 nonproduction employees). Total wages for all employees at industrial mineral operations in 2000 were \$210,862,787. The average annual wage, based on those employees for whom wages were reported, was \$38,472.

TABLE 18.—2000 Value of Ohio industrial minerals

Commodity	Sales (tons)	Change from 1999 (tons/percent)	Value ¹ (dollars)	Percent of total value
Limestone and dolomite	79,940,672	+445,760/+0.6	\$366,805,671	46.9
Sand and gravel	55,734,489	-4,075,066/-6.8	\$252,435,626	32.3
Salt	5,084,823	+512,138/+11.2	\$97,774,836	12.5
Sandstone and conglomerate	2,579,442	-175,968/-6.4	\$45,112,852	5.8
Clay	2,074,652	-1,022,974/-33.0	\$10,119,746	1.3
Shale	2,535,225	-1,535,210/-37.7	\$7,540,061	1.0
Gypsum	230,137	-64,620/-21.9	\$2,071,233	0.2
Peat	2,004	-7,212/-78.3	\$14,054	<0.1
TOTAL	148,181,444	-5,923,152/-3.8	\$781,874,079	100.0

¹The FOB value of industrial minerals sold was estimated for those mines which failed to report this information and for those producing material for captive use. These estimates were calculated using a countywide- or statewide-average price per ton based on reported FOB values.



Frank Dunwoody using a Fletcher Roof Ranger II machine to install resin-type roof bolts at the underground coal mine of the Buckingham Coal Co., Inc., in Athens County. Photo by Michael D. Williams.

TABLE 19.—2000 Employment at Ohio industrial mineral operations, by county and commodity

County ¹	Number of employees ³																				
	Total employees ²	Total ²		Limestone and dolomite		Sand and gravel		Sandstone and conglomerate		Clay		Shale		Salt		Gypsum		Peat		Multiple commodities	
		Production	Non production	Production	Non production	Production	Non production	Production	Non production	Production	Non production	Production	Non production	Production	Non production	Production	Non production	Production	Non production	Production	Non production
Adams	53	46	7	46	7	2	0														
Allen	46	36	10	34	10	35	7														
Ashland	42	35	7			18															
Ashtabula	34	23	11																		
Athens	36	20	16	13	9	6	7			1	0										
Auglaize	40	30	10	23	7	6	3			1	0										
Belmont	38	30	8	16	3	2	2														
Brown	22	20	2	18	2																
Butler	126	91	35			89	34			2	1										
Carroll	7	4	3			4	3														
Champaign	21	17	4			17	4														
Clark	55	43	12			39	12														
Clermont	18	11	7			11	7														
Clinton	54	30	24	30	24	17	12			1	0	2	0								
Columbiana	54	32	22																		
Coshocton	87	48	39			39	34			9	5										
Crawford	38	38	0	38	0																
Cuyahoga	260	94	166																		
Darke	7	4	3			4	3														
Delaware	80	72	8	72	8																
Erie	146	115	31	104	30	1 ^s	1 ^s			10	0										
Fairfield	16	10	6			7	5														
Fayette	12	9	3	9	3																
Franklin	395	316	79	211	48	105	31														
Fulton	10	8	2			8	2														
Gallia	15	6	9			6	9														
Geauga	94	33	61			18	2			14	59										
Greene	137	94	43	38	20	48	22														
Guernsey	9	5	4	5	4																
Hamilton	197	98	99			93	99														
Hancock	34	32	2	32	2																
Hardin	13	11	2	11	2																
Harrison	3	3	0		0																
Highland	78	47	31	47	31																
Hocking	31	16	15	6	5	10	10														
Holmes	33	21	12			17	12														
Huron	1	1	0							1	0										
Jackson	17	12	5	11	3																
Jefferson	4	3	1	3	1																
Knox	69	46	23			18	19			28	4										

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For those operations reporting activity in more than one county, employment was evenly split (to the nearest whole employee) between the counties unless a by-county breakdown was provided by the operator. Any tally inconsistencies are due to computer rounding.

Employment is not included for mines which were owner operated.

Employment for Lake Erie sand and gravel dredging operations is included in the total employment figure for the country in which the operation is based. Employment information is not available.

LIMESTONE AND DOLOMITE

Limestone and dolomite were sold or produced by 67 companies at 118 operations in 50 Ohio counties during 2000. Hocking County produced limestone in 2000, but sales were in neighboring Perry County. Sales of limestone and dolomite totaled 79,940,672 tons (+0.6 percent from 1999); Erie, Delaware, Ottawa, Franklin, and Wyandot Counties accounted for 43.8 percent of those sales. Reported known production totaled 82,296,206 tons.

Lime produced from Ohio limestone and dolomite totaled 1,085,044 tons in 2000 and came from five operations in Ottawa, Sandusky, and Wyandot Counties. Ohio ranks 4th nationally in the production of lime out of 35 producing states. The top five states, in descending order of lime production, are Missouri, Kentucky, Alabama, Ohio, and Texas. Ohio ranks 4th in the production of crushed stone (which includes crushed sandstone) out of

49 producing states. The top five states in the production of crushed stone, in descending order, are Texas, Florida, Pennsylvania, Ohio, and Illinois.⁴

The total value⁵ of limestone and dolomite sold in 2000 was \$366,805,671. Average price per ton was \$4.59.

An annual average of 1,875 employees worked an average of 221 days to produce limestone and dolomite. Total wages of \$97,571,431 were paid to a total of 2,418 employees (1,875 production employees and 543 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$40,352. An additional 130 people (93 production employees and 37 nonproduction employees) were employed by operations mining limestone and dolomite along with one or more other mineral commodities.

Primary uses for crushed and broken limestone and dolomite were road construction/resurfacing and commercial building. Other major uses for various forms of limestone and dolomite included stone for portland cement concrete and asphaltic concrete, aglime, and the production of lime.

⁴Information from U.S. Geological Survey.

⁵Includes reported and estimated values. See footnote 1, p. 7.

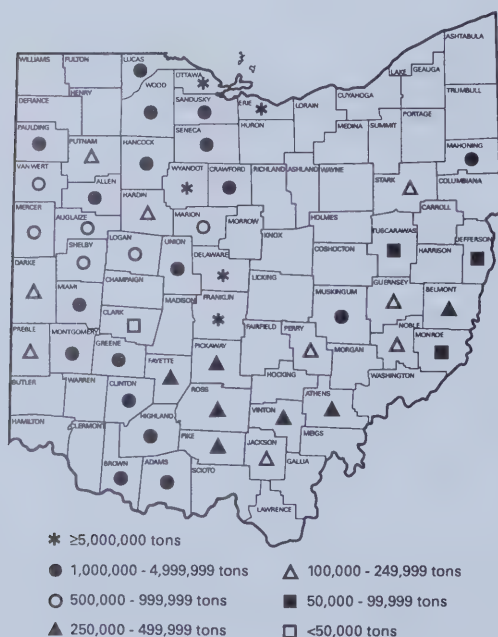


FIGURE 6.—Sales of limestone and dolomite in Ohio in 2000, by county.

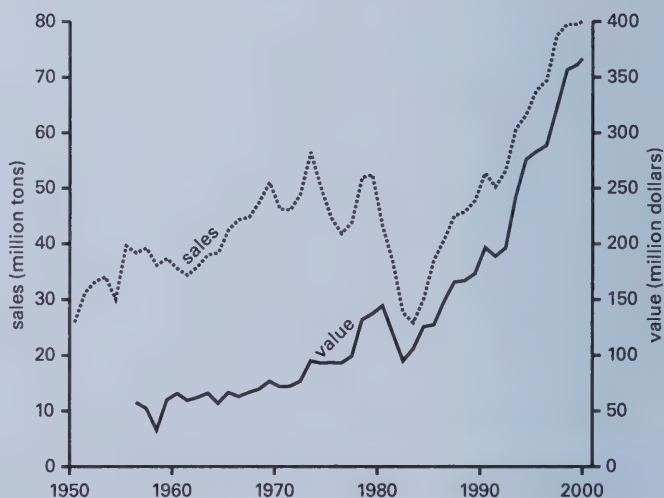


FIGURE 7.—Sales and value of limestone and dolomite in Ohio. Value line dashed where data not available.

TABLE 20.—2000 Production of lime from Ohio stone, by county and type

County	Total tons ¹	Building (tons)	Chemical and industrial (tons)	Refractory (tons)	Other (tons)
Ottawa	142,572		102,082	40,490	
Sandusky	833,562		92,949	740,613	
Wyandot	108,910		108,910		
TOTAL	1,085,044		303,941	781,103	

¹Burning produced a 57.0 percent weight loss.

TABLE 21. — 2000 Ohio limestone and dolomite sales, by county and type

County	Tons sold															
	Total all types	Crushed and broken stone									Dimension stone	Stone for portland cement manufac- ture	Agricultural stone (aglime)	Raw stone for burning	Un- speci- fied/ other	
		Total	Riprap	Flux stone	Stone for portland cement concrete	Stone for asphaltic concrete	Road construc- tion/ resurfacing	Commercial building	Railroad ballast	Extenders/ fillers						Un- specified/ other
Adams	1,910,000	1,910,000			92,617	145,777	92,234	1,216,171	21,419		1,910,000	2,743		3,313		
Allen	1,655,971	1,649,915	1,001								80,696					
Athens	345,787	345,787									345,787					
Auglaize	757,615	747,250	14,778			928	199,991	523,607	7,946					10,365		
Belmont	377,652	377,652	30,219				347,433									
Brown	1,090,000	1,090,000									1,090,000					
Clark	17,732	17,732					17,732									
Clinton	2,050,000	2,036,237	65,127		311,682	417,764	303,254	761,761			176,649	201		13,562		
Crawford	2,178,401	2,108,457	32,567	74,304				1,795,951	1,461	204,174				69,944		
Darke	140,000	140,000									140,000					
Delaware	7,266,476	7,259,055	79,746			92,700	2,067,321	5,014,691	4,597					7,421		
Eric	8,709,580	8,709,480	72,587		750,000	1,150,000	5,026,535	245,159	170,000		1,295,199			100		
Fayette	265,000	265,000									265,000					
Franklin	6,205,825	6,205,825	33,900		1,275,000	198,000	1,940,900	2,758,025	55,369		472,000		612,503			
Greene	1,195,242	582,739					55,370									
Guernsey	139,254	139,254				8,000	52,000	139,254			4,000			1,127		
Hancock	1,854,975	1,853,848	19,089		22,000			1,560,369	188,390					5,331		
Hardin	222,093	216,762	1,865		24,078	56,227	30,278	160,541			1,697,000			12,296		
Highland	2,129,011	2,116,715	2,503				360,985				222,812					
Jackson	222,812	222,812														
Jefferson	92,108	92,108	4,605				73,687	9,211	921		3,684					
Logan	882,255	882,255	26,801		231,689	128,982	277,753	194,671			22,359					
Lucas	3,153,434	3,143,434	70,800		236,800	376,800	586,800	236,800	236,800		1,398,634			10,000		
Mahoning	2,148,212	1,413,395					612,155				801,240		734,817			
Marion	960,612	951,671	6,017		88,457	50,344	131,526	674,777	550					8,941		
Mercer	661,671	646,671	10,000		98,840	195,402	98,840	144,749	98,840					15,000		
Miami	1,512,589	1,450,670	6,721	20,393	156,013	68,570	862,267	252,055		84,651				61,919		
Monroe	67,430	67,430									67,430					
Montgomery	1,072,376	785,000									785,000					
Muskingum	1,885,521	1,792,427	93,095		93,095	93,095	1,094,605	232,348	93,095		93,094		287,376	93,094		
Noble	151,288	151,288	53,268				98,020									
Ottawa	7,131,523	6,798,482	78,859		1,000,622	641,579	3,296,932	1,200,400	74,900	192,256	312,934	6,000		5,818	321,223	
Paulding	1,987,804	1,122,804	25,000		217,500	217,500	217,500	217,500			227,804		790,000	75,000		
Perry	152,090	152,090					152,090									
Pickaway	359,000	359,000	6,000		91,000	45,000	85,000	90,000			42,000					

TABLE 21.—2000 Ohio limestone and dolomite sales, by county and type—Continued

County	Tons sold													
	Total all types	Crushed and broken stone								Dimension stone	Stone for portland cement manufacture	Agricultural stone (aglime)	Raw stone for burning	Un-specified/other
		Total	Riprap	Flux stone	Stone for portland cement concrete	Stone for asphaltic concrete	Road construction/resurfacing	Commercial building	Railroad ballast					
Pike	307,427	301,179	12,056			289,123					943	6,248		
Preble	110,592	104,849	11,448			92,458								
Punam	226,371	226,371	66	51,121		175,184					41,000			
Ross	282,000	282,000	1,000	35,000		65,000	140,000				119,251	41,953	2,055,995	
Sandusky	3,506,087	1,408,139				1,288,888								
Seneca	1,866,526	1,863,565	1,934								1,861,631	2,961		
Shelby	964,526	964,526	13,039			548,105	403,382							
Stark	174,645	174,645	19,099			155,546					249			
Tuscarawas	72,821	72,821	17,276		660	54,636					138,063			
Union	1,972,330	1,972,330		295,850	591,699	690,315	256,403							
Van Wert	711,894	711,894	20,000	118,120	135,120	106,120	146,120	86,120			100,294			
Vinton	409,152	409,152									409,152			
Wood	2,686,441	2,636,441	59,861	372,524	451,360	581,698	491,475	195,000			484,523	50,000		
Wyandot	5,698,521	5,272,320	24,699	431,264	546,947	437,901	3,297,405	25,814	74,424		163,643	222,538	203,663	
TOTAL	79,940,672	74,203,477	915,026	5,993,272	5,612,454	22,566,182	22,218,194	1,205,853	555,505	14,772,071	17,648	2,424,696	713,970	2,580,881

SAND AND GRAVEL

Sand and gravel were sold or produced by 212 companies at 297 operations in 58 Ohio counties plus Lake Erie during 2000. Sales⁶ of sand and gravel totaled 55,734,489 tons (-6.8 percent from 1999). Sand accounted for 30,279,794 tons of the total sand and gravel sold, and gravel accounted for 25,454,695 tons. Butler, Hamilton, Franklin, Portage, and Stark Counties led in sales, accounting for 46.0 percent of the total. Reported known production⁶ of sand and gravel totaled 55,860,375 tons in 2000. Ohio ranks 5th nationally in the production of construction sand and gravel out of 50 producing states and Puerto Rico. The top five states, in descending order of production, are California, Texas, Michigan, Arizona, and Ohio. Ohio ranks 9th nationally in the production of industrial sand and gravel out of 37 states. The states leading Ohio in the production of industrial sand and gravel, in descending order, are Illinois, Michigan, California, Wisconsin,

North Carolina, Oklahoma, Texas, and New Jersey. Ohio ranks 3rd nationally in the production of aggregates, including crushed stone. The top five states, in descending order of aggregate production, are California, Texas, Ohio, Pennsylvania, and Illinois.⁷

A total of 102,048 tons of sand were dredged from Lake Erie in 2000. The Maumee Bay and Maumee River areas are no longer producing sand or gravel.

The total value⁸ of sand and gravel sold in 2000 was \$252,435,626. Average price per ton was \$4.53.

An annual average of 1,288 employees worked an average of 181 days in 2000 to produce sand and gravel. Total wages of \$73,126,187 were paid to a total of 1,893 employees (1,288 production employees and 605 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$38,630. An additional 113 people (82 production employees and 31 nonproduction employees) were employed by operations mining sand and gravel along with one or more other mineral commodities.

Building, road construction/resurfacing, portland cement concrete, and asphaltic concrete were the major uses for Ohio sand and gravel in 2000.

⁶Please note—Sales and production figures for sand include material dredged from Lake Erie.

⁷Information from U.S. Geological Survey.

⁸Includes reported and estimated values. See footnote 1, p. 7.

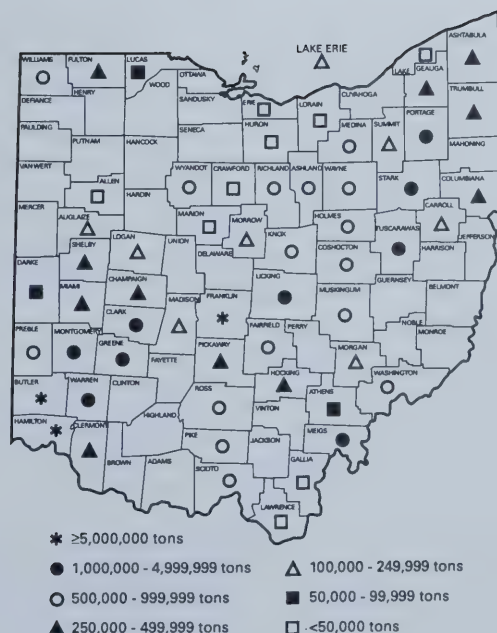


FIGURE 8.—Sales of sand and gravel in Ohio in 2000, by county.

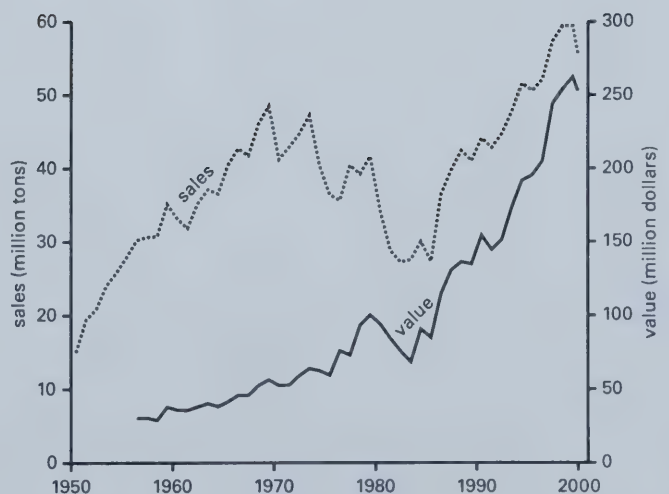


FIGURE 9.—Sales and value of sand and gravel in Ohio. Value line dashed where data not available. Figures from 1984 to 2000 include Lake Erie dredged material.

TABLE 22.—2000 Ohio sand and gravel sales, by county and type

County	Tons sold																
	Total sand and gravel	Total sand	Total gravel	Building		Portland cement concrete		Asphaltic concrete		Road construction/ resurfacing		Filtration		Foundry sand	Industrial sand	Other/unspecified	
				Sand	Gravel	Sand	Gravel	Sand	Gravel	Sand	Gravel	Sand	Gravel			Sand	Gravel
Allen	458		458														
Ashtabula	576,572	258,762	317,810	166,884	155,151											13,851	45,047
Ashland	336,070	171,018	165,052	91,492	114,804	58,000										1,291	3,605
Auglaize	83,020	40,040	42,980	10,352	29,561	18,000			4,397	2,932						1,004	487
Butler	226,356	187,249	39,107	156,099	3,077	25,662	28,547										4,977
Carroll	5,857,359	2,957,794	2,899,565	540,365	626,398	198,399	245,627	57,718	109,620							2,109,410	1,727,404
Champaign	102,243	60,381	41,862														
Clark	379,111	100,198	278,913	16,898	83,134	51,918	36,308									31,382	159,471
Clermont	2,011,166	988,146	1,023,020	32,567	28,145	132,550	186,827	106,610	51,818	17,595						750,929	661,834
Columbiana	388,706	244,926	143,780	36,542		68,642	15,783	82,241	92,116							47,626	45,756
Coshocton	277,224	132,838	144,386	44,154	88,735												
Crawford	633,249	236,812	396,437	17,523	26,368	36,226	63,995	85,081	49,211	126,337						3,666	21,004
Darke	632			632												5,624	9,385
Defiance	91,610	63,499	28,111		27,214	43,499										20,000	897
Erie	4,110	3,960	150		150											3,960	
Fairfield	784,208	543,661	240,547	87,221	41,751	160,439	68,760	80,220	187,179	69,524						28,602	15,506
Franklin	5,577,338	2,666,091	2,911,247	388,153	1,550,604	1,417,888	77,000	794,629	849,863	9,187						1,000	373,000
Fulton	273,084	273,084		273,084													
Gallia	47,045	4,993	42,052													4,993	41,393
Geauga	416,224	301,462	114,762	89,098	51,679	206,743										3,316	2,939
Greene	2,946,109	1,259,411	1,686,698	2,797		127,205	160,696	90,383	8,353							1,121,056	1,289,274
Hamilton	5,664,714	3,290,880	2,373,834	1,227,645	1,527,765	134,892	77,029		134,553	1,634						1,791,828	734,310
Hocking	328,149	197,376	130,773		71	50,000	20,000	69,838	61,320	151						85,905	40,695
Holmes	618,130	385,514	232,616	80,898	98,934	191,741	37,517	11,987	29,453	38,409						16,313	17,223
Huron	201	201		201													
Knox	923,950	453,341	470,609	88,300	133,428	183,000	68,000	95,000	15,000							167,041	139,924
Lake	4,133	4,000	133													4,000	133
Lake Erie	102,048	102,048		37,510		13,180			45,619							671	
Lawrence	11,548	11,548														11,548	
Licking	1,544,725	818,356	726,369	591,356	714,369	65,000		12,000	138,000							24,000	
Logan	218,728	149,471	69,257	1,665	3,650	6,265			6,162							102,381	65,607
Lorain	7,400	7,400														7,400	
Lucas	73,808	73,808		38,809												34,999	
Madison	207,497	88,078	119,419			20,059											
Marion	19,303	14,846	4,457			10,290										4,556	4,457

Medina	797,568	535,874	261,694	119,580	91,235	363,977	81,111	7,000	182,146	122,057	155,130	616	15,329	44,701	153,104
Meigs	1,809,980	1,274,107	535,873	82,366	42,806	154,633	5,582	375,155	6,512	2,233	59,912	36,009	16,794	503,887	147,976
Miami	442,179	276,527	165,652	2,577	2,791	5,153	316,157	21,739	105,190	52,973	24,303	344	372	260,208	254,154
Montgomery	1,268,798	434,896	833,902	28,540	89,783	360,314	12,435	20,848	8,935	20,848	14,435	21,448	21,934	1,100	1,078
Morgan	188,677	110,925	77,752	21,033	18,935	25,648									
Morrow	167,354	51,785	115,569	45,955	71,579										6,514
Muskingum	880,435	475,699	404,736	66,066	51,384	89,619	97,088	149,356	144,617	38,853	28,560	5,830	8,916	125,830	63,063
Pickaway	429,990	173,391	256,599	12,453	101,580	93,419		53,000	88,380	3,519	33,320	5,975	6,472	11,000	33,319
Pike	564,964	431,628	133,336	1,470	2,171	20,175				16,065	25,532	17,918	11,633	376,000	94,000
Portage	4,312,154	2,919,725	1,392,429	901,896	558,289	653,091	200,119	487,040	277,271	66,919	45,623		28,317	810,779	282,810
Preble	511,591	272,054	239,537	147,022	154,530									125,032	85,007
Richland	755,773	243,468	512,305	41,753	200,474			131,118	46,714	1,013	212,533		780	69,584	51,804
Ross	579,586	329,411	250,175	57,438	35,018	62,340	37,188	109,065	96,818	18,614	38,240	2,686	27,657	79,268	15,254
Scioto	740,532	633,992	106,540	16,026	31,734	24,446	1,965			368,270	33,091			225,250	39,750
Shelby	466,643	223,323	243,320		2,755	118,206	118,206	85,000	85,000	20,117	37,359				
Stark	4,230,732	2,241,424	1,989,308	12,402	124,620	342,448	85,439	451,249	577,934	782,046	793,906	4,312		648,967	407,409
Summit	118,882	92,681	26,201	9,950	1,643			49,513	21,798		604			33,218	2,156
Trumbull	320,922	294,693	26,229	104,274	26,229	148,994		18,768						22,657	
Tuscarawas	2,074,467	1,131,992	942,475	353,653	344,227	206,745	103,412	188,240	156,338	344,153	277,744		44,215	19,049	16,539
Warren	1,947,146	706,744	1,240,402	106,094	141,520			80,959	107,531					519,691	991,351
Washington	512,488	296,203	216,285	39,129	15,316	35,737	15,316	35,737	15,316	35,736	18,105	35,736	15,315	114,128	136,917
Wayne	787,951	371,718	416,233	86,107	358,567	105,888	22,148	63,961	21,530	92,317		8,445		15,000	13,988
Williams	708,511	511,390	197,121	153,311	80,618	239,609	24,945	58,205	24,945	58,205	24,945			2,060	41,668
Wyandot	380,938	154,320	226,618	44,636	35,461	95,728	170,465					13,956	20,692		
TOTAL	55,734,489	30,279,794	25,454,695	6,473,976	7,998,672	6,365,748	2,377,665	4,213,274	3,455,614	2,518,628	3,035,707	255,251	344,848	10,430,064	8,242,189

TABLE 23.—2000 Ohio Lake Erie sand and gravel production

Area	Production ¹	
	Cubic yards	Short tons
Lake Erie		
Fairport	75,094	101,377
Vermilion-Lorain "A"	497	671
Vermilion-Lorain "B"	0	0
TOTAL	75,591	102,048

¹Production reported in cubic yards; converted to tons in the ratio of 1 cubic yard equals 1.35 short tons.

SANDSTONE AND CONGLOMERATE

Sandstone and conglomerate were sold or produced by 20 companies at 27 operations in 17 Ohio counties during 2000. Sales totaled 2,579,442 tons (-6.4 percent from 1999). Perry, Geauga, Knox, Pike, and Lake Counties accounted for 92.2 percent of the total sales. Crushed sandstone and conglomerate accounted for 2,529,923 tons of the total sales, and dimension stone accounted for 49,519 tons. Reported known production of sandstone and conglomerate was 2,692,758 tons in 2000. Ohio ranks 12th nationally in production of all dimension stone out of 33 producing states. Ohio ranks 3rd in the production of sandstone dimension stone. The top five states, in descending order of total dimension-stone production, are Indiana, Vermont, Texas, Minnesota, and South Dakota.⁹

⁹Information from U.S. Geological Survey.

¹⁰Includes reported and estimated values. See footnote 1, p. 7.

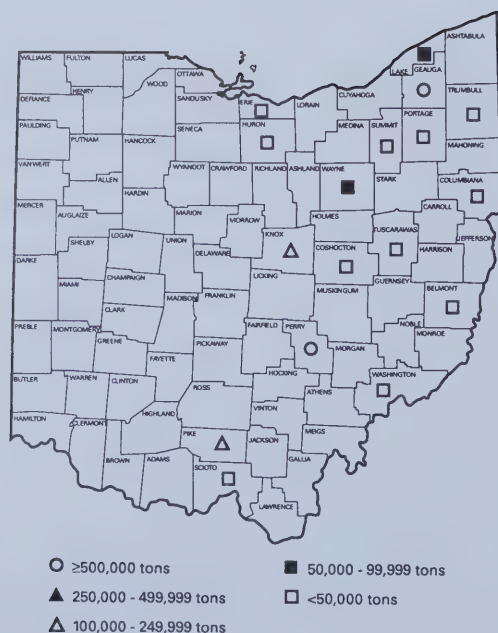


FIGURE 10.—Sales of sandstone and conglomerate in Ohio in 2000, by county.

National standings for crushed stone are included with Limestone and Dolomite.

The total value¹⁰ of sandstone and conglomerate sold in 2000 was \$45,112,852. Average price per ton was \$15.96 for crushed stone and \$95.86 for dimension stone.

An annual average of 134 employees worked an average of 152 days in 2000 to produce sandstone and conglomerate. Total wages of \$7,485,760 were paid to a total of 230 employees (134 production employees and 96 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$32,547. An additional 25 people (15 production employees and 10 nonproduction employees) were employed by operations mining sandstone and conglomerate along with one or more other mineral commodities.

Crushed stone was used primarily for glass sand, construction, foundry sand, aggregate, and silica flour. Dimension stone was used primarily for rough construction purposes.

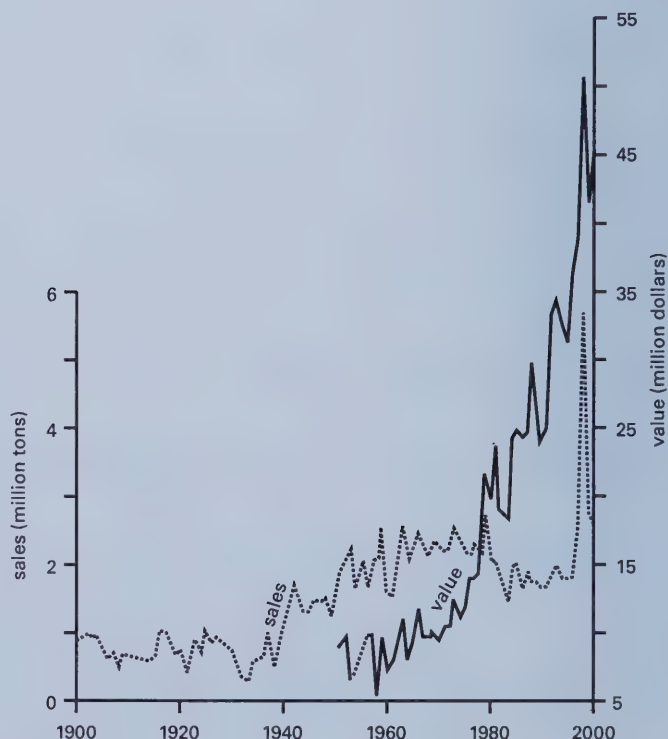


FIGURE 11.—Sales and value of sandstone and conglomerate. Value line dashed where data not available.

TABLE 24. — 2000 Ohio sales of crushed sandstone and conglomerate, by county and type

County	Tons sold														
	Total	Foundry sand	Glass sand	Metallurgical pebble	Refractory	Riprap	Aggregate	Silica flour	Polishing/grinding sand	Fire and furnace sand	Engine sand	Frac sand	Construction	Industrial sand	Other/unspecified
Belmont	2,755					2,755									17,022
Columbiana	19,022					2,000									352,867
Geauga	918,223	84,752	228,089	3,623	21,763		76,080		40,890		5,285	5,325	75,863	23,686	
Huron	9,107						9,107								
Knox	183,455	6,434	65,072					35,452			19,491		18,079	20,086	18,841
Lake	87,766														
Perry	1,025,200														
Pike	164,155	69,346	154,269		15,293		44,338	34,569	131		678	1,543	43,428	18,271	801,255
Portage	29,224		2,991	1,662	5,621								11,177	11,974	60,575
Summit	2,206					2,206									29,224
Trumbull	151												151		
Tuscarawas	20,800	16,300											4,500		
Washington	12,150												12,150		
Wayne	55,709												55,709		
TOTAL	2,529,923	176,832	450,421	5,285	42,677	6,961	129,525	70,021	41,021		25,454	6,868	239,328	55,746	1,279,784

TABLE 25. — 2000 Ohio sales of dimension sandstone, by county and type

County	Tons sold									
	Total	Refractory	Rough construction	Rubble	Grindstones	Rough architectural	Finished	Curbing	Flagging	Other/ unspecified
Coshocton	24,094		20,271							
Erie	7,199		706	986		3,823	5,507			
Scioto	18,226		18,226							
TOTAL	49,519		39,203	986		3,823	5,507			

CLAY

Clay was sold or produced by 45 companies at 55 operations in 29 Ohio counties during 2000. Clay sales (including material for captive use) totaled 2,074,652 tons (-33.0 percent from 1999); Tuscarawas, Stark, Perry, Ottawa, and Greene Counties accounted for 57.2 percent of the total sales. National rankings for clay are included with Shale.

¹¹Includes reported and estimated values. See footnote 1, p. 7.

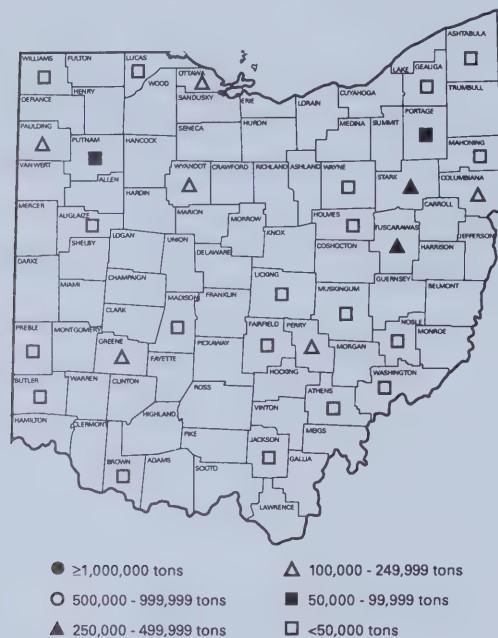


FIGURE 12.—Clay sales in Ohio in 2000, by county.

Reported production of clay was 2,074,728 tons. The total value¹¹ of clay sold (including material for captive use) in 2000 was \$10,119,746. Average price per ton was \$4.88.

An annual average of 21 employees worked an average of 127 days in 2000 mining clay. Total wages of \$703,127 were paid to a total of 34 employees (21 production employees and 13 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$20,680. An additional 131 people (94 production employees and 37 nonproduction employees) were employed by operations mining clay along with one or more other mineral commodities.

Clay mined in Ohio in 2000 was used largely for captive use in the landfill industry, the production of common clay products, and for cement manufacture.

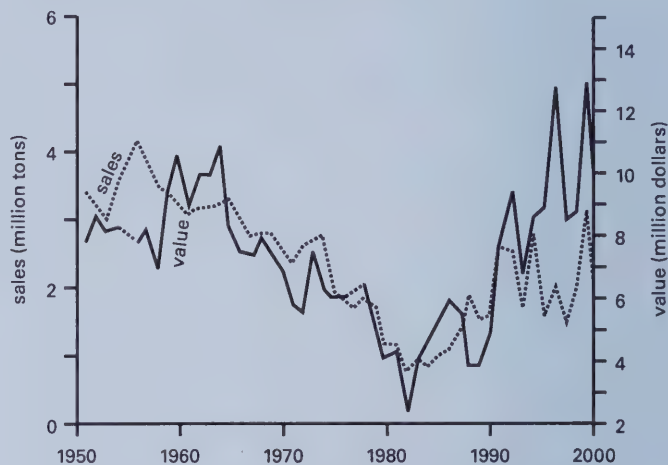


FIGURE 13.—Sales and value of clay in Ohio. Value line dashed where data not available.

TABLE 26.—2000 Ohio clay sales, by county and type

County	Tons sold								
	Total	Common clay products	Stoneware	Vitrified products	Cement manufacture	Refractories	Construction	Landfill use	Other/unspecified
Ashtabula	14,716						14,716		
Athens	271								271
Auglaize	7,308								7,308
Brown	11,010							11,010	
Butler	40,875							40,875	
Columbiana	200,953	112,683		12,249		2,967	886	72,168	
Fairfield	2,382						2,382		
Geauga	296								296
Greene	173,247	167,323			5,924				
Holmes	3,389	3,389							
Jackson	47,246								47,246
Licking	35,000							35,000	
Lucas	21,674								21,674
Madison	135								135
Mahoning	41,749	4,190				22,252			15,307
Muskingum	48,810	7,900		8,470				32,440	
Noble	416	416							
Ottawa	177,120							177,120	
Paulding	144,158				144,158				
Perry	203,271	43,785						159,486	
Portage	55,741								
Preble	1,634						55,302		
Putnam	95,000						1,634		439
Stark	262,766	40,642						95,000	
Tuscarawas	342,054	303,255		38,799				222,124	
Washington	20,063	20,063							
Wayne	4,978	1,800							
Williams	3,938						3,938		
Wyandot	114,452						37,500	76,952	
TOTAL	2,074,652	705,446		59,518	150,082	25,219	116,358	922,175	95,854

SHALE

Shale was sold or produced by 20 companies at 28 operations in 16 Ohio counties during 2000. Shale sales (including material for captive use) totaled 2,535,225 tons (-37.7 percent from 1999); Hamilton, Tuscarawas, Stark, Cuyahoga, and Marion Counties accounted for 86.9 percent of the total sales. Reported production of shale in 2000 was 2,577,473 tons. Ohio ranks 5th nationally in the production of clay and shale out of 44 producing states. The top five states, in descending order of production, are Alabama, North Carolina, Texas, Georgia, and Ohio.¹² The

¹²Information from U.S. Geological Survey.

¹³Includes reported and estimated values. See footnote 1, p. 7.



FIGURE 14.—Shale sales in Ohio in 2000, by county.

total value¹³ of shale sold (including material for captive use) in 2000 was \$7,540,061. Average price per ton was \$2.93.

An annual average of 29 employees worked an average of 187 days in 2000 mining shale. Total wages of \$1,876,655 were paid to a total of 60 employees (29 production employees and 31 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$31,278. An additional 93 people (55 production employees and 38 nonproduction employees) were employed by operations mining shale along with one or more other mineral commodities.

Shale mined in Ohio was largely for captive use in the landfill industry, in the production of common clay products, and for lightweight aggregate.

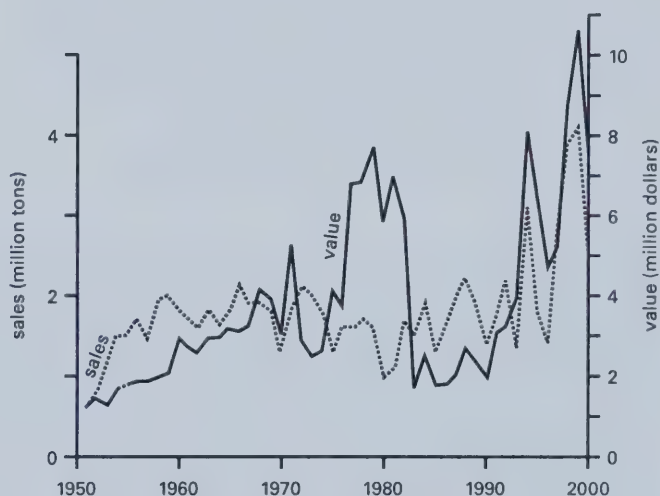


FIGURE 15.—Sales and value of shale in Ohio. Value line dashed where data not available.

TABLE 27.—2000 Ohio shale sales, by county and type

County	Tons sold							
	Total	Common clay products	Vitrified products	Cement manufacture	Lightweight aggregate	Construction	Landfill use	Other/unspecified
Brown	19,275						19,275	
Columbiana	65,308	32,808						32,500
Cuyahoga	236,866				236,866			
Hamilton	1,095,477						1,095,477	
Harrison	30,000	30,000						
Holmes	2,257	2,257						
Knox	981					981		
Licking	26,541		26,541					
Lucas	13,765			13,765				
Mahoning	83,612			83,612				
Marion	220,959	220,959						
Perry	62,763	48,945					13,818	
Richland	22,130	22,130						
Stark	293,960						293,960	
Tuscarawas	356,218	350,078	6,140					
Wayne	5,113					5,113		
TOTAL	2,535,225	707,177	32,681	97,377	236,866	6,094	1,422,530	32,500

SALT

Salt was produced by 3 companies at 5 operations in 5 Ohio counties during 2000. Total tonnage of salt sold in 2000 amounted to 5,084,823 tons (+11.2 percent from 1999). Rock salt sales totaled 4,224,169 tons from 2 underground mines, one each in Cuyahoga and Lake Counties. Three brining operations, one each in Licking, Summit, and Wayne Counties, sold a total of 5,176 tons of salt in brine and 860,654 tons of evaporated salt. Reported known production of salt was 4,248,693 tons in 2000. The top five salt-producing states nationally, in alphabetical order, are Kansas, Louisiana, New York, Ohio, and Texas.¹⁴

The total value¹⁵ of the salt sold in 2000 was \$97,774,836. Average price per ton of rock salt was \$15.48 and of salt in brine and evaporated salt was \$23.03. The average price per ton of all salt sold was \$19.23.

An annual average of 215 employees worked an average of 271 days in 2000 to produce salt. Total wages of \$17,682,123 were paid to a total of 446 employees (215 production employees and 231 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$39,646. The primary use for Ohio salt was ice control. Salt also was used as an additive in animal feed, for cattle blocks, and as a commercial and residential water-softening agent.

¹⁴Information from U.S. Geological Survey.

¹⁵Includes reported and estimated values. See footnote 1, p. 7.

¹⁶Includes estimated values only. See footnote 1, p. 7.

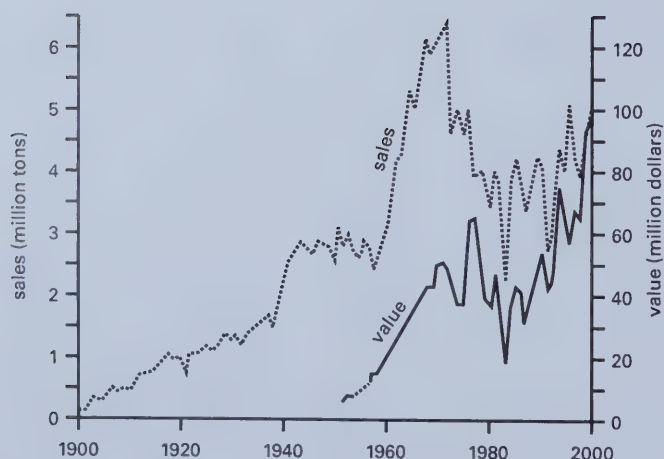


FIGURE 16.—Sales and value of salt in Ohio. Value line dashed where data not available.

GYPSUM

Gypsum was produced by 1 company at 1 operation in Ottawa County during 2000. Gypsum production and sales (all material was for captive use) totaled 230,137 tons (-21.9 percent from 1999). The reported value¹⁶ of the gypsum sold was \$2,071,233. Average price per ton was \$9.00. Ohio ranks 15th nationally in the production of gypsum out of 20 producing states. The top five states, in descending order of production, are Oklahoma, California, Iowa, Texas, and Nevada.¹⁴

An annual average of 7 employees worked 250 days in 2000 producing gypsum. Total wages of \$293,078 were paid to a total of 9 employees (7 production employees and 2 nonproduction employees). The average annual wage in 2000 was \$32,564. The sole use of gypsum from this operation is for the manufacture of wallboard.

PEAT

Peat was produced by 2 companies at 2 operations in 2 Ohio counties during 2000. Peat sales (including material for captive use) totaled 2,004 tons (-78.3 percent from 1999). Champaign and Williams Counties accounted for 100 percent of the total sales. The total value of the peat sold in 2000 was \$14,054. Average price per ton was \$7.01. Reported known production was 2,000 tons.

Most peat operations in Ohio are owner operated. Therefore, employment information is not available.

Peat produced in Ohio was used primarily for mulch and soil mix.

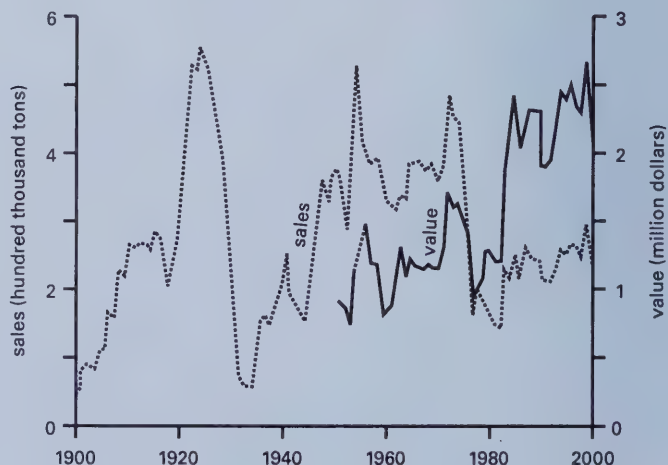


FIGURE 17.—Sales and value of gypsum in Ohio. Value line dashed where data not available. Some figures were calculated because actual figures were not reported in order to maintain confidentiality.

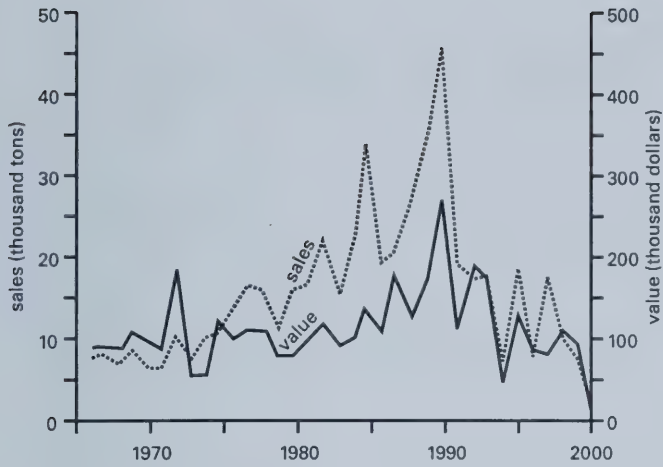


FIGURE 18.—Sales and value of peat in Ohio.

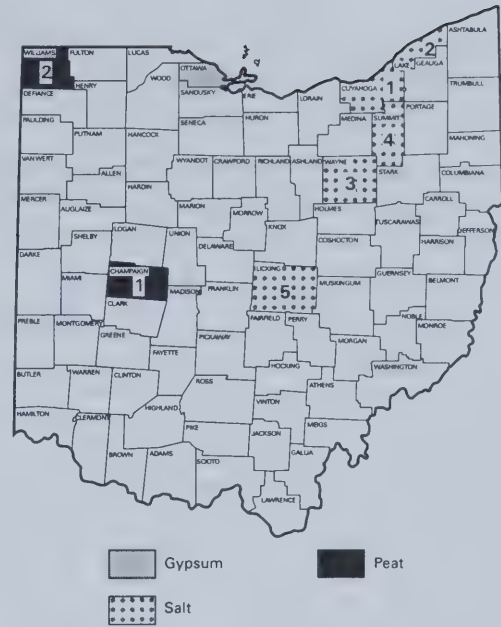


FIGURE 19.—Counties producing salt, gypsum, and peat in Ohio in 2000, and their ranking in sales.



An Eimco 2810-3 continuous miner in operation at the Buckingham Coal Co., Inc., underground coal mine in Athens County. The miner is capable of mining 39 tons of coal each minute. Photo by Michael D. Williams.

FIGURE 21.—New wells drilled for oil and gas in 2000, by county.

TABLE 28.—2000 Ohio summary of new oil and gas well completions by county

County ¹	Development wells		Exploratory wells		Total wells	Percent productive	Drilled footage		
	Productive	Dry	Productive	Dry			Productive	Dry	Total
Ashland	1	0	0	0	1	100.00	2,889	0	2,889
Ashtabula	23	1	5	0	29	96.55	122,589	5,674	128,263
Auglaize	1	0	0	0	1	100.00	1,426	0	1,426
Carroll	11	0	0	0	11	100.00	59,140	0	59,140
Columbiana	1	1	0	0	2	50.00	5,296	8,150	13,446
Coshocton	28	1	0	2	31	90.32	108,915	15,473	124,388
Cuyahoga	1	0	0	0	1	100.00	2,906	0	2,906
Fairfield	4	3	2	11	20	30.00	23,704	56,406	80,110
Gallia	2	0	0	0	2	100.00	7,310	0	7,310
Geauga	2	0	0	0	2	100.00	8,320	0	8,320
Guernsey	7	0	1	1	9	88.89	49,785	7,844	57,629
Harrison	5	0	2	0	7	100.00	14,873	0	14,873
Hocking	2	2	3	1	8	62.50	18,416	13,100	31,516
Holmes	7	5	0	5	17	41.18	24,849	57,949	82,798
Knox	3	0	0	1	4	75.00	7,739	5,360	13,099
Lake	1	1	0	0	2	50.00	1,619	1,645	3,264
Lawrence	8	1	0	0	9	88.89	28,852	3,574	32,426
Licking	5	3	6	3	17	64.71	45,796	27,294	73,090
Mahoning	41	0	1	0	42	100.00	227,208	0	227,208
Medina	1	1	0	0	2	50.00	3,704	5,387	9,091
Monroe	11	0	0	0	11	100.00	25,476	0	25,476
Morgan	4	0	0	0	4	100.00	21,673	0	21,673
Morrow	2	5	0	0	7	28.57	7,282	16,868	24,150
Muskingum	30	3	4	4	41	82.93	175,469	43,628	219,097
Noble	3	0	0	0	3	100.00	10,756	0	10,756
Perry	1	2	1	1	5	40.00	5,615	12,385	18,000
Pickaway	0	1	0	1	2	0.00	0	5,069	5,069
Portage	14	0	0	0	14	100.00	91,856	0	91,856
Richland	4	2	0	0	6	66.67	15,879	9,191	25,070
Ross	0	0	0	1	1	0.00	0	3,496	3,496
Stark	28	4	0	1	33	84.85	148,631	36,035	184,666
Summit	1	0	0	0	1	100.00	4,459	0	4,459
Trumbull	12	0	0	0	12	100.00	61,396	0	61,396
Tuscarawas	21	1	2	0	24	95.83	124,742	7,502	132,244
Vinton	1	0	0	1	2	50.00	1,275	5,700	6,975
Washington	30	2	2	0	34	94.12	174,766	12,750	187,516
Wayne	16	12	2	9	39	46.15	89,722	118,112	207,834
TOTAL	332	51	31	42	456	79.61	1,724,333	478,592	2,202,925

¹One well was drilled but not completed in Huron County in 2000. No wells were drilled in these counties in 2000: Adams, Allen, Athens, Belmont, Brown, Butler, Champaign, Clark, Clermont, Clinton, Crawford, Darke, Defiance, Delaware, Erie, Fayette, Franklin, Fulton, Greene, Hamilton, Hancock, Hardin, Henry, Highland, Jackson, Jefferson, Logan, Lorain, Lucas, Madison, Marion, Meigs, Mercer, Miami, Montgomery, Ottawa, Paulding, Pike, Preble, Putnam, Sandusky, Scioto, Seneca, Shelby, Union, Van Wert, Warren, Williams, Wood, and Wyandot.

TABLE 29.—2000 Ohio summary of new oil and gas well completions by geologic unit

Geologic unit	No. of producing wells	No. of dry holes	Total no. of wells	Percent productive	Total footage
Pennsylvanian undifferentiated	5	0	5	100.00	2,700
Upper Mississippian undifferentiated	3	0	3	100.00	4,928
Lower Mississippian "1st & 2nd Berea"	11	1	12	91.67	18,209
Devonian					
Ohio Shale	14	0	14	100.00	33,854
Oriskany	3	1	4	75.00	10,416
Silurian					
Bass Islands	2	0	2	100.00	5,141
"Clinton-Medina"	225	6	231	98.27	1,107,870
Lower Ordovician					
Queenston-					
Black River	4	0	4	100.00	14,570
Beekmantown	16	1	17	94.12	113,389
Cambrian-Ordovician					
Rose Run	55	48	103	53.40	589,719
Cambrian					
Trempealeau	23	37	60	38.33	297,049
Precambrian	0	1	1	0.00	5,080
TOTAL	361	95	456	79.61	2,202,925

TABLE 30.—*Ohio counties¹ and their state mine number abbreviations²*

<i>County</i>	<i>Abbreviation</i>	<i>County</i>	<i>Abbreviation</i>	<i>County</i>	<i>Abbreviation</i>
Adams	Ads	Hamilton	Hmn	Noble	Ne
Allen	An	Hancock	Hk	Ottawa	Oa
Ashland	Ald	Hardin	Hdn	Paulding	Pg
Ashtabula	Asa	Harrison	Hn	Perry	Py
Athens	As	Henry	Hy	Pickaway	Pky
Auglaize	Ae	Highland	Hd	Pike	Pke
Belmont	Bt	Hocking	Hg	Portage	Pe
Brown	Bn	Holmes	Hs	Preble	Pre
Butler	Br	Huron	Hrn	Putnam	Pm
Carroll	Cl	Jackson	Jkn	Richland	Rd
Champaign	Cpn	Jefferson	Jfn	Ross	Rs
Clark	Ck	Knox	Kx	Sandusky	Sy
Clermont	Ct	Lake	Lke	Scioto	So
Clinton	Cln	Lawrence	Le	Seneca	Sa
Columbiana	Ca	Licking	Lg	Shelby	Shy
Coshocton	Cn	Logan	Lgn	Stark	Sk
Crawford	Cd	Lorain	Ln	Summit	St
Cuyahoga	Cya	Lucas	Ls	Trumbull	Tl
Darke	Dke	Madison	Mdn	Tuscarawas	Ts
Defiance	De	Mahoning	Mg	Union	Un
Delaware	Del	Marion	Mn	Van Wert	Vt
Erie	Ee	Medina	Ma	Vinton	Vn
Fairfield	Fd	Meigs	Ms	Warren	Wan
Fayette	Fe	Mercer	Mr	Washington	Wn
Franklin	Fn	Miami	Mi	Wayne	We
Fulton	Ftn	Monroe	Me	Williams	Ws
Gallia	Ga	Montgomery	My	Wood	Wd
Geauga	Gea	Morgan	Mon	Wyandot	Wt
Greene	Ge	Morrow	Mw		
Guernsey	Gy	Muskingum	Mum		

¹Defiance and Henry Counties reported no production or sales of mineral commodities in 2000.²As used for State mine numbers.

2000 COAL COMPANIES WITH SALES OR PRODUCTION

Company	Number of mines	Production (tons)	Sales (tons)
American Landfill, Inc.	1	6,607	6,607
Anthony Mining Co., Inc.	2	148,616	148,616
Avis Coal Co.	1	59,098	59,098
B & N Coal, Inc.	6	369,425	369,425
Belden Brick Co.	3	19,069	19,069
Bennoc, Inc.	1	14,919	14,919
Blue Jay Enterprises of Ts. Co., Inc.	1	2,493	2,493
Buckeye Industrial Mining Co.	10	835,541	835,540
Buckingham Coal Co., Inc.	1	543,824	549,781
Cedar Heights Clay Co.	1	1,057	1,057
Central Ohio Coal Co.	1	1,081,212	1,081,212
Commercial Minerals, Inc.	1	7,766	7,766
Consolidation Coal Co.	1	364,645	384,324
Cravat Coal Co.	3	289,432	289,375
D. & D. Mining Co.	1	4,191	5,943
Daron Coal Co., Inc.	1	299,937	300,127
ENZ, Inc.	2	173,772	173,772
ESSROC Cement Corp.	1	3,140	3,140
East Fairfield Coal Co.	1	1,723	1,723
F & M. Coal Co.	1	21,367	21,367
Franklin Mineral	1	1,896	1,896
Harrison Mining Corp.	1	1,728,169	2,083,436
Holmes Limestone Co.	9	650,721	644,331
JM Mining & Reclamation	1	583	583
K.C.C.I.	1	2,801	2,801
Kimble Clay & Limestone Co.	7	302,402	302,403
L & M Mineral Co.	2	9,518	9,518
Marietta Coal Co.	10	506,300	506,300
Myers Mining	1	23,990	23,990
Northshore Coal, Inc.	1	3,612	3,612
Ohio River Collieries, Inc.	1	147,025	146,543
Ohio Valley Coal Co.	1	4,618,077	4,584,865
Oxford Mining Co., Inc.	8	2,142,536	2,142,536
Sands Hill Coal Co., Inc.	7	1,296,347	1,296,347
Melvin Schaney	2	5,606	5,606
Schiappa Coal Co., Inc.	1	136,141	136,141
Sidwell Materials, Inc.	2	18,029	18,029
Southern Ohio Coal Co.	2	4,317,564	4,317,564
State Line Resources, Inc.	1	20,885	20,885
Sterling Mining Co.	3	400,411	400,411
Thompson Bros. Mining Co.	1	7,517	7,517
Valley Mining, Inc.	5	308,933	308,933
Varkony Mining Co.	1	51,456	51,456
Waterloo Coal Co., Inc.	4	1,530,195	1,530,195
TOTAL: 44 companies	113	22,478,548	22,821,252

2000 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL-MINE OPERATORS

For those mines that have not been assigned a state mine number, a letter designation is used (example: Bt-C).

The designation (u) following the map-location number indicates an underground mine.

To convert short tons to metric tons, multiply the given tonnage by 0.907185.

Name, address, telephone number, and president/ owner/manager of company	Name of mine (and map location number)	County	2000 production (tons)	State mine number	Mining and reclamation permit number
American Landfill, Inc. 7916 Chapel St. SE Waynesburg, OH 44688 330-866-3265 David A. Bower, Jr., pres.	American Landfill, Inc. (631)	Stark	6,607	Sk-246	D-1090
Anthony Mining Co., Inc. P.O. Box 1298 Steubenville, OH 43952 740-282-5301 Albert Carapellotti, pres.	Omaits/Fluharty (756) Lions Club (844)	Jefferson Jefferson	12,059 136,557	Jfn-835 Jfn-AN	D-1063 D-1173
Avis Coal Co. P.O. Box 157 Glouster, OH 45732-0157 740-767-9902 James F. Graham, pres.	Drakes (663)	Perry	59,098	Py-A	D-0931
B & N Coal, Inc. P.O. Box 100 Dexter City, OH 45727 740-783-3575 Carl Baker, Jr., pres.	Ullman (514) Lee Pit (627) Estadt (760) Barnes Ridge (799) Friday (866) Shilling Pit (493)	Noble Noble Noble Noble Noble Washington	75,231 15,935 12,900 138,799 69,271 57,289	Ne-151 Ne-155 Ne-BN Ne-BN2 Ne-BN3 Ne-1008	D-0807 D-0958 D-1038 D-1122 D-1194 D-0706
Belden Brick Co. P.O. Box 20910 Canton, OH 44701 330-852-2424 Robert F. Belden, pres.	Moomaw Pit (667) Belden Pit (261) Shanesville Pit (634)	Tuscarawas Tuscarawas Tuscarawas	7,807 8,690 2,572	Ts-1517 Ts-1646 Ts-1939	IM-46 IM-44 IM-47
Bennoc, Inc. P.O. Box 208 Morristown, OH 43759 740-782-1330 Larry Conway, pres.	Bennoc, Inc. (832)	Belmont	14,919	Bt-BE	D-1159
Blue Jay Enterprises of Ts. Co., Inc. P.O. Box 641 Zoar, OH 44697 330-874-2048 Leland Ervin, pres.	Swonger Waltz Mine (783)	Tuscarawas	2,493	Ts-520	IM-214
Buckeye Industrial Mining Co. P.O. Box 389 Lisbon, OH 44432 330-337-9511 John C. Grisham, pres.	Shawver (853) Mountain Spring #11 (790) (u) Ingledue (856) Witmer (857) Snyder Deep Mine #10 (876) (u) Close (802) American (867) Anthony (877) Finnie (878) Kiko (835)	Carroll Columbiana Columbiana Columbiana Jefferson Stark Stark Stark Stark Stark	20,964 352,752 111,091 24,937 184 40,524 135,565 64,000 42,913 42,611	Cl-BI1 Ca-1003 Ca-B1 Ca-BI5 Jfn-BI Sk-B Sk-B1 Sk-B2 Sk-B3 Sk-BI1	D-1175 D-0928 D-2003 D-1179 D-1180 D-1123 D-1192 D-2048 D-2062 D-1162
Buckingham Coal Co., Inc. P.O. Box 157 Glouster, OH 45732-0157 740-767-9902 James F. Graham, pres.	Buckingham No. 2 (851) (u)	Athens	543,824	As-B	D-1163

2000 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL-MINE OPERATORS—Continued

Name, address, telephone number, and president/ owner/manager of company	Name of mine (and map location number)	County	2000 production (tons)	State mine number	Mining and reclamation permit number
Cedar Heights Clay Co. 50 Portsmouth Rd. P.O. Box 295 Oak Hill, OH 45656-0295 740-682-7794 William T. Brown, pres.	Harrison (797)	Jackson	1,057	Jkn-CH2	IM-1302
Central Ohio Coal Co. P.O. Box 98 Cumberland, OH 43732 740-962-2013 Gary Dimmerling, gen.mgr.	Muskingum Mine (228)	Morgan, Noble	1,081,212	Ne-41	D-0678, D-1034, D-1084, D-2047
Commercial Minerals, Inc. 10900 South Ave. P.O. Box 217 North Lima, OH 44452-0217 330-549-2165 W.T. Mackall, pres.	Buckeye Road (736)	Columbiana	7,766	Ca-997	D-1051
Consolidation Coal Co. 1800 Washington Rd. Pittsburgh, PA 15241-1421 412-831-4000 Barry D. Dangerfield, v. pres., operations	Mahoning Valley Mine 936 (150)	Harrison	364,645	Hn-700	D-51, D-54, D-334, D-414, D-784
Cravat Coal Co. 40580 Cadiz-Piedmont Rd. Cadiz, OH 43907 740-942-4656 Michael T. Puskarich, pres.	Hendrysburg (884)	Belmont	31,639	Bt-C2	D-2028
	Wallace (838)	Harrison	207,352	Hn-C1	D-1169
	Morelli (839)	Harrison	50,441	Hn-C2	D-1170
D. & D. Mining Co. 3379 E. Garfield Rd. New Springfield, OH 44443 330-549-3127 Donald Thompson, pres.	D. & D. Strip (441)	Columbiana	4,191	Ca-348	D-1002
Daron Coal Co., Inc. 42600 Deersville Ridge Rd. Cadiz, OH 43907 740-942-8223 Chuck Ungurean, pres.	Standingstone Mine (860)	Harrison	299,937	Hn-D	D-1181
ENZ, Inc. P.O. Box 405 Magnolia, OH 44643 330-866-4510 James R. Demuth, pres.	Fox Pit (831)	Stark	3,092	Sk-205	D-1144
	Sickafoose Pit (246)	Stark	170,680	Sk-208	D-1015
ESSROC Cement Corp. P.O. Box 779 Bessemer, PA 16112 724-667-7702 Robert Rayner, pres. & CEO	Bessemer Pit (625)	Mahoning	3,140	Mg-608	IM-4
East Fairfield Coal Co. 10900 South Ave. P.O. Box 217 North Lima, OH 44452-0217 330-549-2165 W.Thomas Mackall, pres.	Withers-Petersburg (846)	Mahoning	1,723	Mg-E	IM-1103

2000 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL-MINE OPERATORS—Continued

Name, address, telephone number, and president/ owner/manager of company	Name of mine (and map location number)	County	2000 production (tons)	State mine number	Mining and reclamation permit number
F & M. Coal Co. Costonia Rd. Box 171 Toronto, OH 43964 740-544-5203 Edward Fiala, partner	F & M. Strip (826)	Jefferson	21,367	Jfn-FM	D-1147
Franklin Mineral P.O. Box 207 Dundee, OH 44624 330-827-3135 Thomas Flynn, pres.	Franklin Mineral Kohl Pit One (880)	Tuscarawas	1,896	Ts-F	D-1189
Harrison Mining Corp. P.O. Box 176 Cadiz, OH 43907 740-942-8220 Donn A. Chichering, pres.	Nelms Mine-Cadiz Portal (580) (u)	Harrison	1,728,169	Hn-710	D-0426
Holmes Limestone Co. P.O. Box 295 Berlin, OH 44610 330-893-2721 Merle Mullet, pres.	Miley (740) Miley-Patterson (874) Walnut Creek (841) Bolivar (363) E. Canton-Thomas (879) East Canton (779) Dennison-R & F (723) Stone Creek-Spring (850) Stone Creek-Costain (881)	Coshocton Coshocton Holmes Stark Stark Stark Tuscarawas Tuscarawas Tuscarawas	29,815 9,183 153,074 53,451 62,744 52,331 94,082 162,415 33,626	Cn-H1 Cn-HL1 Hs-H1 Sk-235 Sk-H1 Sk-HCC Ts-2043 Ts-H4 Ts-H5	D-1094 D-2019 D-1176 D-0865 D-2011 D-1106 D-1047 D-1149 D-0533
JM Mining & Reclamation 6807 Roy Andrews Rd. NW New Philadelphia, OH 44663 330-343-9691 John O. Miller, pres.	Miller Pit (882)	Tuscarawas	583	Ts-JM	D-2031
K.C.C.I. P.O. Box 1298 Steubenville, OH 43952 740-543-4389 David Krulock, pres.	Apex (796)	Harrison, Jefferson	2,801	Jfn-K	IM-1164
Kimble Clay & Limestone Co. 3596 State Route 39 W Dover, OH 44622-9801 330-343-1226 Keith B. Kimble, pres.	Kimble Clay & Limestone Co. (262) Kimble Clay & Limestone Co. (598) Kimble Clay & Limestone Co. (888) Kimble Clay & Limestone Co. (784) Kimble Clay & Limestone Co. (830) Kimble Clay & Limestone Co. (868) Kimble Clay & Limestone Co. (640)	Tuscarawas Tuscarawas Tuscarawas Tuscarawas Tuscarawas Tuscarawas Tuscarawas	33,601 73,554 9,650 695 36,816 111,220 36,866	Ts-1727 Ts-2019 Ts-H6 Ts-K4 Ts-K5 Ts-K6 Ts-RM	IM-9 D-0852 D-1188 D-1079 D-1133 D-1183 D-0904
L & M Mineral Co. 5205 State Route 39 Millersburg, OH 44654 330-893-2227 John E. Ling, Jr., pres.	Luikart (267) Spring (411)	Tuscarawas Tuscarawas	8,726 792	Ts-1914 Ts-1982	D-0701 IM-621
Marietta Coal Co. 67705 Friends Church Rd. St. Clairsville, OH 43950 740-695-2197 George Nicolozakes, pres.	Hostetler-Hapapuro (810) AT&T (604) Daley-Pickenpaugh (811) Johnson-Wozniak (812) Brown et al. (814) Denham et al. (833) Senakiewich (852) Mauersberger et al. (870) Godway et al. (871) Krulock-Hannan (872)	Belmont Belmont Belmont Belmont Belmont Belmont Belmont Belmont Belmont Belmont	139,634 10,218 55,460 38,667 45,093 94,374 89,236 17,534 15,298 786	Bt-1171 Bt-AT Bt-M3 Bt-M4 Bt-M6 Bt-M7 Bt-M8 Bt-M9 Bt-MC Bt-MC1	D-0674 D-0922 D-1134 D-1135 D-1152 D-1171 D-1190 D-2075 D-2055 D-2077

2000 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL-MINE OPERATORS—Continued

Name, address, telephone number, and president/ owner/manager of company	Name of mine (and map location number)	County	2000 production (tons)	State mine number	Mining and reclamation permit number
Myers Mining P.O. Box 218 Carrollton, OH 44615 330-739-2009 Benjamin A. Erb, owner	Harlem #7 (854)	Carroll	23,990	Cl-M2	D-2014
Northshore Coal, Inc. P.O. Box 648 St. Clairsville, OH 43950 740-695-7237 Charles F Dawson, pres.	Buckeyeville (648)	Guernsey	3,612	Gy-315	D-0951
Ohio River Collieries, Inc. P.O. Box 128 Bannock, OH 43972 740-968-3582 Tony Gentile, pres.	7400 Pit (27)	Belmont	147,025	Bt-1074	D-0340
Ohio Valley Coal Co. 56854 Pleasant Ridge Rd. Alledonia, OH 43902 740-926-1351 John Forrelli, pres.	Powhatan #6 (3) (u)	Belmont	4,618,077	Bt-68	D-0360
Oxford Mining Co., Inc. 544 Chestnut St. P.O. Box 427 Coshocton, OH 43812 740-622-6302 Charles C. Ungorean, pres.	Reilly Strip (567)	Belmont	72,167	Bt-1186	D-0877
	Boswell (885)	Belmont	76,183	Bt-OX	D-0676
	Egypt Valley West (731)	Belmont	186,611	Bt-RF2	D-1062
	Cox (837)	Coshocton	15,532	Cn-RF7	D-1160
	McConnell (886)	Harrison	227,582	Hn-OX	D-2022
	Camp (887)	Muskingum	413,876	Mum-OX	D-1196
	Adamsville (865)	Muskingum	290,908	Mum-RF1	D-1164
	Z-Mack (764)	Perry	859,677	Py-O	D-1086
Sands Hill Coal Co., Inc. P.O. Box 650 Hamden, OH 45634-0650 740-384-4211 Alan C. Arthur, pres.	Coal Valley (787)	Gallia	151,639	Ga-629	D-1095
	Coal Valley (875)	Gallia	51,122	Ga-SH	D-2018
	Sands Hill Rockcamp II (843)	Jackson, Vinton	459,572	Jkn-S2	D-1087
	Lincoln (825)	Jackson	22,897	Jkn-S3	D-1137
	Pearce (862)	Jackson	267,216	Jkn-S4	D-2009
	Elk (869)	Vinton	234,928	Vn-S2	D-1193
	Elk (883)	Vinton	108,973	Vn-S3	D-2058
Melvin Schaney 47134 Giacobbi Rd. Jewett, OH 43986 740-937-2515 Melvin Schaney, owner	Schaney Mining (748)	Harrison	1,246	Hn-759	D-1037, D-1151
	Schaney Mining (861)	Harrison	4,360	Hn-SM	D-1186
Schiappa Coal Co., Inc. State Route 43 Canton Rd. P.O. Box 728 Steubenville, OH 43952 740-282-5301 Teresa C. Schiappa, pres.	Cherry Valley (795)	Harrison	136,141	Hn-767	D-1124
Sidwell Materials, Inc. 4620 Limestone Valley Rd. Zanesville, OH 43701 740-849-2392 Jeffrey R. Sidwell, pres.	Bellaire Stone (603)	Belmont	15,901	Bt-1190	IM-1089, D-1061
	Uniontown (683)	Belmont	2,128	Bt-B	D-0998

2000 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL-MINE OPERATORS—Continued

Name, address, telephone number, and president/ owner/manager of company	Name of mine (and map location number)	County	2000 production (tons)	State mine number	Mining and reclamation permit number
Southern Ohio Coal Co. P.O. Box 490 Athens, OH 45701 740-286-5051 Charles A. Ebetino, gen. mgr.	Meigs Mine #31 (300) (u) Meigs Mine #2 (213) (u)	Meigs Meigs, Vinton	2,190,200 2,127,364	Ms-293 Ms-294	D-0354, D-0463 D-0355
State Line Resources, Inc. P.O. Box 419 Negley, OH 44441 330-426-9611 Charles H. Muse, Jr., pres.	State Line Resources, Inc. (855)	Columbiana	20,885	Ca-505	IM-13, IM-936
Sterling Mining Co. 10900 South Ave. P.O. Box 217 North Lima, OH 44452-0217 330-549-2165 W.Thomas Mackall, pres.	Carroll Hollow Run (873) Sterling North (657) (u) Sterling South (758) (u)	Carroll Jefferson Jefferson	1,716 157,709 240,986	Cl-S Jfn-823 Jfn-ST	D-2070 D-0949 D-1019
Thompson Bros. Mining Co. 3379 E. Garfield Rd. New Springfield, OH 44443 330-549-3979 J. E. Thompson, owner	Thompson Bros. Mining Co. (864)	Mahoning	7,517	Mg-T	D-1168
Valley Mining, Inc. 4412 Pleasant Valley Rd. SE Dennison, OH 44621 740-922-3942 Mary J. Brown, pres.	Egypt Valley (732) Snyder-Bush (696) Piergallini (709) Braver (889) Elliott-Smith (806)	Belmont Guernsey Jefferson Tuscarawas Tuscarawas	209,357 17,536 48,146 31,922 1,972	Bt-VM Gy-318 Jfn-831 Ts-V2 Ts-VM	D-1059 D-1025 D-1026 D-2013 D-1125
Varkony Mining Co. P.O. Box 427 Hopedale, OH 43976 740-937-2777 Stephen & William Varkony, partners	JWP (863)	Jefferson	51,456	Jfn-V2	D-1185
Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 740-682-7787 T. L. Darlington, Jr., pres.	Bowman Strip (165) Mitchell Hollow Pit (357) Allied Pit (420) Dundas Pit (602)	Jackson Vinton Vinton Vinton	675,234 3,459 32,923 818,579	Jkn-367 Vn-172 Vn-184 Vn-191	D-0594, D-968, D-1083, D-1167, D-2059 D-0445 D-0609 D-0867, D-0957, D-1004

2000 OHIO DIRECTORY OF COAL-PREPARATION PLANTS AND ASSOCIATED FACILITIES, BY COUNTY

For those mines that have not been assigned a state mine number, a letter designation is used (example: Bt-C).

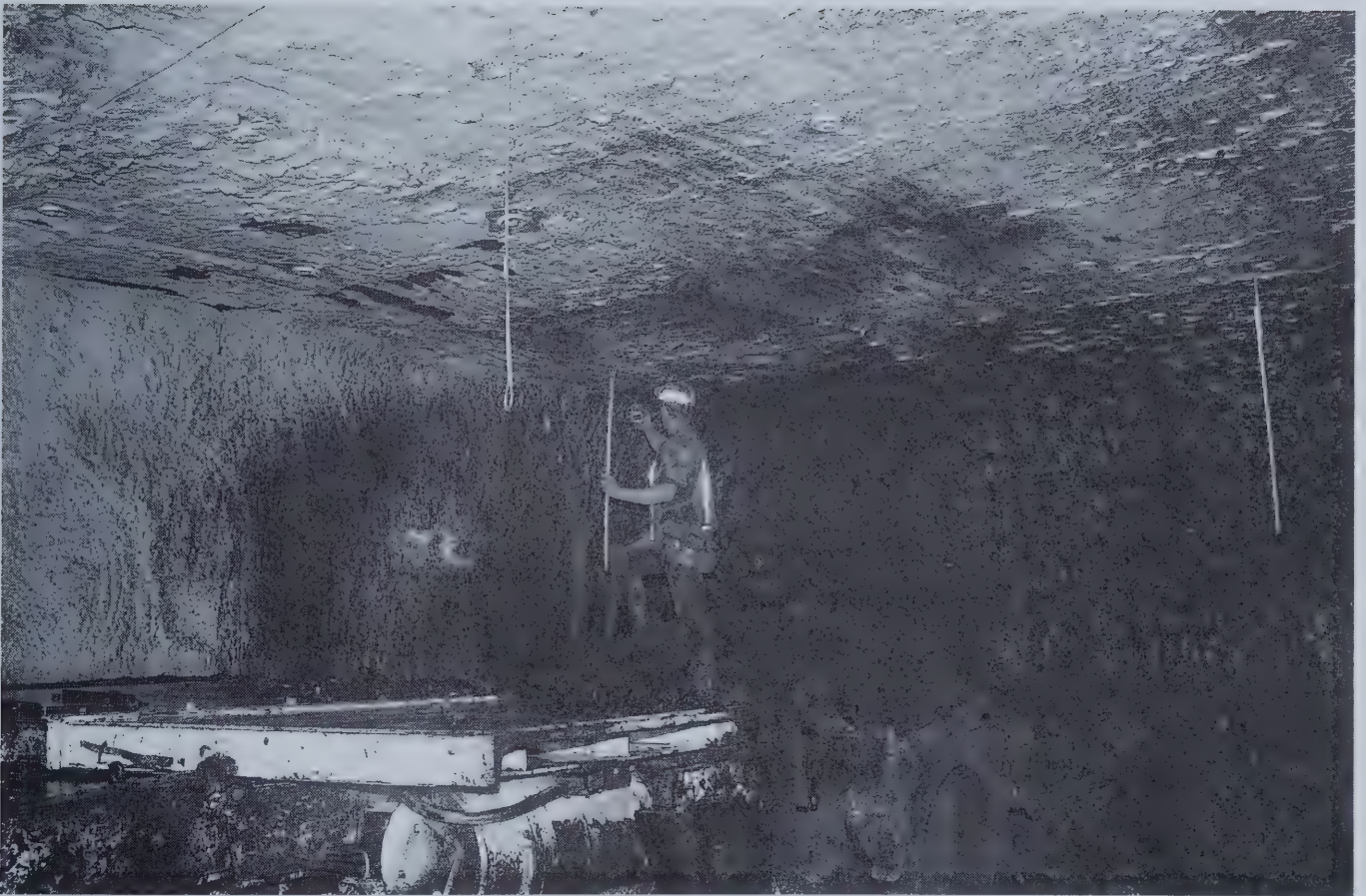
County	Name, address, telephone number, and president/owner/manager of company	Name of plant (and map location number for coal-preparation plants)	Township	State mine number	Mining and reclamation permit number	Type of facility
Belmont	Cravat Coal Co. 40580 Cadiz-Piedmont Rd. Cadiz, OH 43907 740-942-4656 Michael Puskarich, pres.	Bellaire Dock	Pultney	Bt-876	D-0687	loading dock
	Marietta Coal Co. 67705 Friends Church Rd. St. Clairsville, OH 43950 740-695-2197 George Nicolozakes, pres.	Loading Dock (3)	Pultney	Bt-936	D-0216	loading dock, prep plant—jig, flotation, centrifugal dryer, crushers, screens
	Ohio River Collieries, Inc. P.O. Box 128 Bannock, OH 43972 740-968-3582 Tony Gentile, pres.	Lafferty Tipple Lafferty Truck Shop	Union Union	Bt-947 Bt-1093	D-0773 D-0773	tipple shop
	Ohio Valley Coal Co. 56854 Pleasant Ridge Rd. Alledonia, OH 43902 740-926-1351 John Forelli, pres.	Powhatan #6 (4)	Smith, Washington	Bt-68	D-0360	prep plant—jigs, cyclones, centrifuges, thickeners, filters, screens
	Ohio Valley Transloading Co. 56854 Pleasant Ridge Rd. Alledonia, OH 43902 216-765-1240 Robert E. Murray, pres.	Harbour Facility	York	Bt-1198		dock
	Rayle River Coal 67705 Friends Church Rd. St. Clairsville, OH 43950 740-695-2197 George Nicolozakes, pres.	Rayle River Terminal	Pultney	Bt-1191		coal transfer facility
Columbiana	Buckeye Industrial Mining Co. P.O. Box 389 Lisbon, OH 44432 330-337-9511 John C. Grisham, pres.	Kensington Preparation Plant (5)	West	Ca-879	D-0806	prep plant—heavy-media washer, cyclone, centrifuges, breaker
	State Line Resources, Inc. P.O. Box 419 Negley, OH 44441 330-426-9611 Charles H. Muse, Jr., pres.	State Line Resources, Inc. (33)	Middleton	Ca-505	D-0223	prep plant—crushers, cyclones, screens
Coshocton	Conesville Coal Preparation Co. 14561 Twp. Rd. 263 Conesville, OH 43811 740-829-2392 H. D. Leppla, gen. mgr.	Conesville Coal Preparation Co. (7)	Franklin	Cn-810		prep plant—jig, cyclones, froth cells, flotation, filter press, screens, dryers
	Oxford Mining Co., Inc. 544 Chestnut St. P.O. Box 427 Coshocton, OH 43812 740-622-6302 Charles C. Ungurean, pres.	Lori Tipple	Franklin	Cn-736	D-0671	tipple

**2000 OHIO DIRECTORY OF COAL-PREPARATION PLANTS AND
ASSOCIATED FACILITIES, BY COUNTY — Continued**

County	Name, address, telephone number, and president/owner/manager of company	Name of plant (and map location number for coal-preparation plants)	Township	State mine number	Mining and reclamation permit number	Type of facility
Gallia	Sugarcreek Clay & Limestone, Inc. P.O. Box 402 Sugarcreek, OH 44681 330-852-4440 Daniel D. Miller, pres.	Sugarcreek Tipple	Crawford	Cn-825	D-0801	tipple
	Sands Hill Coal Co., Inc. P.O. Box 650 Hamden, OH 45634-0650 740-384-4211 Alan C. Arthur, pres.	Sands Hill Coal Co., Inc.	Addison	Ga-183	D-0834	tipple
	McCarthy Construction 60 Dickason St. Jackson, OH 45640 740-286-7501 Rick McCarthy, owner	Conrick Dock	Addison	Ga-216	D-0739	dock
Harrison	Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 740-682-7787 T. L. Darlington, Jr., pres.	Waterloo Dock #1	Addison	Ga-229	D-0725	dock, tipple
	Cravat Coal Co. 40580 Cadiz-Piedmont Rd. Cadiz, OH 43907 740-942-4656 Michael Puskarich, pres.	22 Shop	Moorefield	Hn-230		shop
	Harrison Processing Corp. 86395 Mine Rd. P.O. Box 250 Hopedale, OH 43976 740-937-2615 Mark McIntire, v. pres.	Nelms Prep Plant (30)	Green	Hn-169	D-0424	prep plant—heavy-media vessel, heavy-media cyclones, spirals, dryers, thickeners, crushers, screens
Jackson	Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 740-682-7787 T. L. Darlington, Jr., pres.	Bowman Strip (10)	Jefferson, Madison	Jkn-367	D-0285	prep plant—jig, crushers, breaker, screens, dryers, wash tables
Lawrence	Collins Mining Co. 981 State Route 650 Ironton, OH 45638-8600 740-534-9445 C. E. Collins, v. pres.	River Dock	Hamilton	Le-415	D-0777	dock
Mahoning	Thompson Bros. Mining Co. 3379 E. Garfield Rd. New Springfield, OH 44443 330-549-3979 J. E. Thompson, owner	Thompson Bros. Mining Co.	Springfield	Mg-588	D-0711	tipple
Meigs	Southern Ohio Coal Co. P.O. Box 490 Athens, OH 45701 740-286-5051 Charles A. Ebetino, v. pres.	Meigs Mine No. 31 (14)	Salem	Ms-293	D-0354	prep plant—heavy-media washers, flotation, cyclones, centrifuges, thickeners, filters, breaker, screens

**2000 OHIO DIRECTORY OF COAL-PREPARATION PLANTS AND
ASSOCIATED FACILITIES, BY COUNTY — Continued**

County	Name, address, telephone number, and president/owner/manager of company	Name of plant (and map location number for coal-preparation plants)	Township	State mine number	Mining and reclamation permit number	Type of facility
Meigs (cont.)	Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 740-682-7787 T. L. Darlington, Jr., pres.	Waterloo Dock #3	Salisbury	Ms-285	D-0698	tipple, dock
Morgan	Central Ohio Coal Co. P.O. Box 98 Cumberland, OH 43732 740-454-1121 Gary Dimmerling, gen. mgr.	Muskingum Mine (16)	Meigsville	Ne-41	D-0378, D-0420	tipple, prep plant—jigs, flotation, cyclones, thickener, filters, crushers, breakers, screens, magnets
Perry	Crooksville Coal Co., Inc. P.O. Box 149 Crooksville, OH 43731 740-982-6651 Ralph L. Allen, pres.	Crooksville Tipple	Salt Creek	Py-339	D-0692	tipple
Scioto	Norfolk Southern Railroad 914 Hayport Rd. Wheelersburg, OH 45694 740-574-8491 Charles G. Howard, asst. to mgr.	NS Wheelersburg Terminal	Porter	So-96		dock
Tuscarawas	Central Fuel Co. County Rd. 55 P.O. Box 165 New Philadelphia, OH 44663 330-339-5049 Keith B. Kimble, gen. mgr.	Central Fuel Co. (20)	York	Ts-1938	D-0264	prep plant—jig, screen, dryers
	Copperhead Mining P.O. Box 525 Sugar Creek, OH 44681-0525 330-852-4511 Edward Gauss, pres.	Barrs Mills Tipple	Sugar Creek	Ts-MM1	D-0876	tipple
	Holmes Limestone Co. P.O. Box 295 Berlin, OH 44610 330-893-2721 Merle Mullet, pres.	Strasburg Wash Plant (21) Slurry Wash Plant (32)	Franklin, Lawrence Franklin, Lawrence	Ts-1942 Ts-HC	D-0287 D-0981	prep plant—jigs, cyclones, centrifuges, crushers, screens, picking tables prep plant—cyclones
Vinton	Sands Hill Coal Co., Inc. P.O. Box 650 Hamden, OH 45634-0650 740-384-4211 Alan C. Arthur, pres.	Sands Hill Tipple/ Preparation Plant (24)	Clinton	Vn-641	D-0169, D-0309	tipple, prep plant—heavy-media washers, flotation, cyclones, centrifuge, crushers, screens, dryer, picking tables, magnets
	Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 740-682-7787 T. L. Darlington, Jr., pres.	Benedict Tipple (22) Dundas Tipple	Swan Clinton	Vn-145 Vn-178	D-0159 D-0185	tipple, prep plant—heavy-media washer, cyclone, crusher, conveyors tipple



Mike Cole, continuous miner operator employed by Buckingham Coal Co., Inc., checking methane gas levels prior to mining operations at Buckingham's underground coal mine in Athens County. Note white coating of lime on walls and ceiling to minimize coal dust. Photo by Michael D. Williams.

2000 OHIO DIRECTORY OF PRODUCING COAL-MINE OPERATORS, BY COUNTY

NOTE: This directory lists only the coal-producing operations. It does not list tipples, loading docks, preparation plants, or other active, nonproducing operations that would contribute to employment and wage statistics presented in tables 11-17. For those mines that have not been assigned a state mine number, a letter designation is used (example: Bt-C). There is no correlation between the "Seam Number" column and the "Production Tonnage" column. The Seam Number column represents the seams mined at the operation. No production tonnage is listed by seam. Days in production were estimated for those companies not providing this information. To convert short tons to metric tons, multiply the given tonnage by 0.907185.

SEAM IDENTIFICATION OF PRINCIPAL OHIO COALS

1 Sharon	4 Brookville	6A Lower Freeport	9 Meigs Creek
2 Quakertown	4A Clarion	7 Upper Freeport	11 Waynesburg
3 Lower Mercer	5 Lower Kittanning	7A Mahoning	12 Washington
3A Upper Mercer	5A Strasburg	8 Pittsburgh	H Harlem
3B Tionesta	6 Middle Kittanning	8A Pomeroy-Redstone	W Winters

Name of company	Name of mine	Township	Seam		Type of mine	Production		Days in production in 2000	Disposition		Employment			State mine number
			Number	Thickness (inches)		Method	Tonnage		Method	Tonnage	Underground	Surface	Non-production	
ATHENS COUNTY—Total production = 543,824 tons														
Buckingham Coal Co., Inc.	Buckingham No. 2	Trimble	6	110	drift	cont. miner	519,237	165	rail	457,636	51	10	4	As-B
			7	36	surface	strip	24,587	125	truck	92,145				
						Total	543,824		Total	466,881				
BELMONT COUNTY—Total production = 5,880,307 tons														
Bennoc, Inc. Cravat Coal Co.	Bennoc, Inc. Hendrysburg	Wayne Kirkwood	12	32	surface	strip	14,919	66	truck	14,919		2	13	Bt-BE Bt-C2
			8	36	surface	strip	27,320	22	truck	31,409		3	1	
			9	42		auger	4,319							
						Total	31,639							
Marietta Coal Co. ¹	Hostetler-Hapapuro	Colerain	9		surface	strip	133,369	240	water	139,634		12	2	Bt-1171
						auger	6,265							
						Total	139,634							
	Krulock-Hannan Daley-Pickenpaugh	Colerain Colerain, Richland	9	40	surface	strip	786	5	water	786		1	2	Bt-MC1 Bt-M3
			9	40	surface	strip	34,978	140	water	55,460		4		
			11	24		auger	20,482							
						Total	55,460							
	AT&T Godway et al.	Kirkwood, Union Pultney	8		surface	strip	10,218	30	water	10,218		2		Bt-AT Bt-MC
			9	34	surface	strip	9,059	75	water	15,298		4	1	
						auger	6,239							
						Total	15,298							
	Johnson-Wozniak	Pultney, Richland	9		surface	strip	26,515	140	water	38,667		6	2	Bt-M4
			11			auger	12,152							
						Total	38,667							

Denham et al.	Richland, Wheeling	11	surface	strip auger Total	83,747 10,627 94,374	240	water	94,374	10	2	Bt-M7
Brown et al.	Union	9	surface	strip auger Total	38,086 7,007 45,093	130	water	45,093	6	2	Bt-M6
Mauersberger et al.	Union	9	48 surface	strip auger Total	13,459 4,075 17,534	100	water	17,534	2	1	Bt-M9
Senakiewich	Wheeling	11	surface	strip auger Total	61,743 27,493 89,236	240	water	89,236	10	2	Bt-M8
7400 Pit	Union	9	42 surface	strip auger Total	122,585 24,440 147,025	216	truck water Total	133,941 12,602 146,543	10	2	Bt-1074
Powhatan #6	Goshen, Smith	8	62 drift	longwall cont. miner Total	4,076,160 541,917 4,618,077	359	rail truck Total	2,789,324 1,795,541 4,584,865	270	141	Bt-68
Egypt Valley West	Kirkwood, Warren	8 9	50 36 surface	strip	186,611	196	truck	186,611	17	2	Bt-RF2
Boswell	Warren	9	36 surface	strip	76,183	127	truck	76,183	4	4	Bt-OX
Reilly Strip	Warren	9	36 surface	strip	72,167	150	truck	72,167	4	1	Bt-1186
Bellaire Stone	Pultney	8	72 surface	strip	11,519	102	truck	15,901	3	1	Bt-1190
		8A 9	48 surface	auger Total	4,382 15,901						
Uniontown	Wheeling	8 9	56 surface	strip	2,128	20	truck	2,128	3	1	Bt-B
Egypt Valley	Kirkwood, Warren	8 9	surface	strip auger Total	189,484 19,873 209,357	292	truck	209,357	11	3	Bt-VM
CARROLL COUNTY—Total production = 46,670 tons											
Buckeye Industrial Mining Co.	Shawver	H	24 surface	strip	20,964	60	truck	20,964	2	1	Cl-B11
Myers Mining	Harlem #7	H	18 surface	strip	23,990	307	truck	23,990	3	4	Cl-M2
Sterling Mining Co.	Carroll Hollow Run	7	36 surface	strip	1,716	20	truck	1,716	1	1	Cl-S
COLUMBIANA COUNTY—Total production = 521,622 tons											
Buckeye Industrial Mining Co.	Ingledue	7A	24 surface	strip auger Total	83,996 27,095 111,091	223	truck	111,091	5	2	Ca-B1

Employment estimated for all Marietta Coal Co. operations.

¹Employment estimated for all Marietta Coal Co. operations.

2000 OHIO DIRECTORY OF PRODUCING COAL-MINE OPERATORS, BY COUNTY—Continued

Name of company	Name of mine	Township	Seam		Type of mine	Production		Days in production in 2000	Disposition		Employment			State mine number
			Number	Thickness (inches)		Method	Tonnage		Method	Tonnage	Underground	Production surface	Non-production	
COLUMBIANA COUNTY (continued)														
Buckeye Industrial Mining Co. (cont.)	Witmer	Franklin, Wayne, Center	7A	28	surface	strip	24,937	64	truck	24,937		2	1	Ca-B15
	Mountain Spring #11	Madison	7A	37	drift	cont. miner	352,752	300	truck	352,752	27		6	Ca-1003
Commercial Minerals, Inc.	Buckeye Road	Madison	7	36	surface	strip	5,290	65	truck	7,766		2	3	Ca-997
						auger	2,476							
						Total	7,766							
D. & D. Mining Co.	D. & D. Strip	Unity	4	27	surface	strip	4,191	29	truck	5,943		1	4	Ca-348
			5	12										
State Line Resources, Inc.	State Line Resources, Inc.	Middleton	5	8	surface	strip	20,885	96	truck	20,885		4	4	Ca-505
			6	22										
COSHOCTON COUNTY—Total production = 54,530 tons														
Holmes Limestone Co.	Miley	Mill Creek	5, 6		surface	strip	29,815	264	truck	29,815		2	1	Cn-H1
Oxford Mining Co., Inc.	Miley-Patterson	Millcreek	5, 6		surface	strip	9,183	22	truck	2,793		2	1	Cn-HL1
	Cox	Virginia	6		surface	strip	15,532	40	truck	15,532		2	1	Cn-RF7
GALLIA COUNTY—Total production = 202,761 tons														
Sands Hill Coal Co., Inc.	Coal Valley	Huntington	6	72	surface	strip	51,122		truck conveyor	11,144				Ga-SH
			7	12					Total	39,978				
										51,122				
Coal Valley		Huntington	6	72	surface	strip	151,639	255	truck conveyor	33,054	12		2	Ga-629
			7	12					Total	118,585				
										151,639				
GUERNSEY COUNTY—Total production = 21,148 tons														
Northshore Coal, Inc.	Buckeyeville	Jackson	6A, 7	66	surface	strip	3,612	140	truck	3,612		3	1	Gy-315
Valley Mining, Inc.	Snyder-Bush	Wheeling	6	30	surface	strip	12,846	120	truck	17,536		3	3	Gy-318
						auger	4,690							
						Total	17,536							
HARRISON COUNTY—Total production = 3,021,273 tons														
Consolidation Coal Co.	Mahoning Valley Mine 936	Athens, Cadiz	8, 8A, 9	42	surface	strip	364,645	147	truck	384,324		29	7	Hn-700
Cravat Coal Co.	Morelli	Cadiz	8	38	surface	strip	50,441	75	truck	50,441		2	1	Hn-C2
Daron Coal Co., Inc.	Wallace	Moorefield	8	42	surface	strip	207,352	240	truck	207,525		9	3	Hn-C1
	Standingstone Mine	Cadiz	8	50	surface	strip	213,729	302	truck	300,127		10	7	Hn-D
			8A	12		auger	86,208							
			9	36		Total	299,937							

Harrison Mining Corp.	Nelms Mine-Cadiz Portal	Archer, Cadiz, Short Creek	6A	60	drift	cont. miner	1,728,169	357	rail truck water other Total	1,975,001 31,904 75,027 1,504 2,083,436	141	37	Hn-710	
K.C.C.I. Oxford Mining Co., Inc. Melvin Schaney Schlappa Coal Co., Inc.	Apex	German	8	48	surface	strip	1,400	13	truck	1,400	2	2	Jfn-K ²	
	McConnell	Athens	9	48	surface	strip	227,582	236	truck	227,582	16	1	Hn-OX	
	Schaney Mining	Green	8	30	surface	strip	4,360	60	truck	4,360	2	1	Hn-SM	
	Schaney Mining	Green	8	30	surface	strip	1,246	9	truck	1,246	1	1	Hn-759	
	Cherry Valley	Green	8	56	surface	strip	136,141	305	truck	136,141	13	4	Hn-767	
			8A	20										
HOLMES COUNTY—Total production = 153,074 tons														
Holmes Limestone Co.	Walnut Creek	Walnut Creek	5 6		surface	strip	153,074	270	truck	153,074	11	1	Hs-H1	
JACKSON COUNTY—Total production = 1,196,190 tons														
Cedar Heights Clay Co. Sands Hill Coal Co., Inc.	Harrison Lincoln	Madison Milton	5 5 6	18 36 18	surface surface	strip strip	1,057 22,897	25	truck truck conveyor Total	1,057 4,991 17,906 22,897	2		Jkn-CH2 Jkn-S3	
	Pearce	Milton	4A 5 6 7	48 36 16 12	surface	strip	267,216		truck conveyor Total	58,247 208,969 267,216			Jkn-S4	
	Sands Hill Rockcamp II	Milton	4A 5 6 7	48 36 19 12	surface	strip	229,786	125	truck conveyor Total	50,088 179,698 229,786	16		Jkn-S2 ^{3,4}	
	Waterloo Coal Co., Inc.	Bowman Strip	Madison, Bloomfield, Jefferson	6 4A 5	48 14 40	surface	strip	675,234	282	truck	675,234	59	41	Jkn-367
	JEFFERSON COUNTY—Total production = 669,865 tons													
Anthony Mining Co., Inc.	Lions Club	Smithfield	8 8A	56 20	surface	strip auger Total	132,222 4,335 136,557	305	truck	136,557	13	4	Jfn-AN	
	Omaits/Fluharty	Smithfield, Wayne	8 8A	56 20	surface	strip auger Total	8,964 3,095 12,059		truck	12,059			Jfn-835	

²See also Jefferson County.

³Employment reported for Jkn-S2 is a summary for all Sands Hill Coal Co., Inc., operations in Jackson County.

⁴See also Winston County.

²See also Jefferson County.³Employment reported for Jkn-S2 is a summary for all Sands Hill Coal Co., Inc., operations in Jackson County.⁴See also Vinton County.

2000 OHIO DIRECTORY OF PRODUCING COAL-MINE OPERATORS, BY COUNTY—Continued

Name of company	Name of mine	Township	Seam		Type of mine	Production		Days in production in 2000	Disposition		Employment			State mine number
			Number	Thickness (inches)		Method	Tonnage		Method	Tonnage	Underground	Production	Non-production	
JEFFERSON COUNTY (continued)														
Buckeye Industrial Mining Co. F & M. Coal Co.	Snyder Deep Mine #10	Ross	7	36	drift	cont. miner	184			truck	184			Jfn-BI
	F & M. Strip	Wayne	8	54	surface	strip auger Total	18,867 2,500 21,367	307		truck	21,367	3		Jfn-FM
K. C. C. I. Sterling Mining Co. Valley Mining, Inc. Varkony Mining Co.	Apex	Springfield	8	48	surface	strip	1,401	13		truck	1,401			Jfn-K ³
	Sterling North	Brush Creek	7A	36	drift	cont. miner	157,709	255		truck	157,709	17		Jfn-823
	Sterling South	Brush Creek	7A	36	drift	cont. miner	240,986	255		truck	240,986	15		Jfn-ST
	Piergallini	Smithfield	8, 8A		surface	strip	48,146	253		truck	48,146	5		Jfn-831
	JWP	Ross	8	54	surface	strip	51,456	203		truck	51,456	7		Jfn-V2
MAHONING COUNTY—Total production = 12,380 tons														
East Fairfield Coal Co. ESSROC Cement Corp. Thompson Bros. Mining Co.	Withers-Petersburg	Springfield	4	22	surface	strip	1,723	255		truck	1,723	1		Mg-E
	Bessemer Pit	Poland	5, 6		surface	strip	3,140	200		truck	3,140	1		Mg-608
	Thompson Bros. Mining Co.	Beaver	4		surface	strip	7,517	33		truck	7,517	2		Mg-T
MEIGS COUNTY—Total production = 3,819,766 tons														
Southern Ohio Coal Co.	Meigs Mine #2	Columbia	4A	52	drift	longwall cont. miner Total	1,361,291 268,275 1,629,566	209		conveyor	1,629,566	151		Ms-294 ⁶
	Meigs Mine #31	Salem	4A	54	drift	longwall cont. miner Total	1,856,285 333,915 2,190,200	269		conveyor	2,190,200	197		Ms-293
MORGAN COUNTY—Total production = 826,283 tons														
Central Ohio Coal Co.	Muskingum Mine	Bristol, Manchester, Meigsville	9	42	surface	strip auger Total	781,368 44,915 826,283	161		conveyor	826,283	40		Ne-41 ⁷
MUSKINGUM COUNTY—Total production = 704,784 tons														
Oxford Mining Co., Inc.	Adamsville Camp	Madison Washington	6, 6A, 7 6		surface surface	strip strip	290,908 413,876	131 193		truck truck	290,908 413,876	49 29		Mum-RF1 Mum-OX
NOBLE COUNTY—Total production = 567,065 tons														
B & N Coal, Inc.	Lee Pit Ullman	Elk Elk	9 9	30 30	surface surface	strip strip	15,935 75,231	64 254		truck truck	15,935 75,231	1 5		Ne-155 Ne-151

Central Ohio Coal Co.	Barnes Ridge	Marion	9	36	surface	strip	138,799	248	truck	138,799	9	1	Ne-BN2
	Friday	Marion	9	36	surface	strip	69,271	248	truck	69,271	5	1	Ne-BN3
	Estadt	Stock	9	30	surface	strip	12,900	48	truck	12,900	2	1	Ne-BN
	Muskingum Mine	Sharon	9	42	surface	strip	241,070	50	conveyor	254,929	12	11	Ne-41 ⁸
										13,859			
PERRY COUNTY—Total production = 918,775 tons													
Avis Coal Co. Oxford Mining Co., Inc.	Drakes	Monroe,	6	120	surface	strip	59,098	128	truck	59,098	5	1	Py-A
	Z-Mack	Clayton, Pike	5, 6		surface	strip	859,677	259	truck	859,677	43	9	Py-O
STARK COUNTY—Total production = 674,518 tons													
American Landfill, Inc. Buckeye Industrial Mining Co.	American Landfill, Inc.	Sandy	5	30	surface	strip	6,607	40	truck	6,607	2	1	Sk-246
	Anthony	Osnaburg	5	27	surface	strip	64,000	112	truck	64,000	3	1	Sk-B2
	Kiko	Osnaburg	6	32	surface	strip	41,437	120	truck	42,611	3	1	Sk-B11
			6	28	surface	strip auger Total	1,174 42,611						
ENZ, Inc.	Finnie	Paris	6	28	surface	strip	42,913	66	truck	42,913	2	1	Sk-B3
	Close	Pike	5	24	surface	strip	40,524	29	truck	40,523	2	1	Sk-B
	American	Sandy	5	26	surface	strip	135,565	167	truck	135,565	4	1	Sk-B1
	Fox Pit	Sandy	6	30	surface	strip	3,092	43	truck	3,092		1	Sk-205
Holmes Limestone Co.	Sickafoose Pit	Sandy, Pike	4, 5, 6 4	22 22	surface surface	strip strip	170,680	303	truck	170,680	19	7	Sk-208
	Bolivar	Bethlehem	6		surface	strip	53,451	240	truck	53,451	3	1	Sk-235
	East Canton	Osnaburg	5, 6		surface	strip	52,331	109	truck	52,331	4	1	Sk-HCC
	E. Canton-Thomas	Osnaburg	5, 6		surface	strip	62,744	166	truck	62,744	5	1	Sk-H1
TUSCARAWAS COUNTY—Total production = 659,978 tons													
Belden Brick Co.	Belden Pit	Sugar Creek	4	8	surface	strip	8,690		truck	8,690	1		Ts-1646
	Moomaw Pit	Sugar Creek	5	30	surface	strip	7,807		truck	7,807	1		Ts-1517
Blue Jay Enterprises of Ts. Co., Inc. Franklin Mineral	Shanesville Pit	Sugar Creek	4	16	surface	strip	2,572		truck	2,572	1		Ts-1939
	Swonger Waltz Mine	Sandy	4, 5 4	16 24	surface surface	strip strip	2,493	42	truck	2,493	1	1	Ts-520
	Franklin Mineral Kohl Pit One	Lawrence	5	18	surface	strip	1,896	15	truck	1,896	1	1	Ts-F
	Dennison-R & F	Rush	5A 6, 7	20	surface	strip auger Total	54,293 39,789 94,082	283	truck	94,082	7	1	Ts-2043
Holmes Limestone Co.	Stone Creek-Costain	York	5, 6		surface	strip auger Total	24,724 8,902 33,626	49	truck	33,626	3	1	Ts-H5

⁸See also Harrison County.

⁶See also Vinton County.

⁷See also Noble County.

⁸See also Harrison County.

⁹See also Vinton County.

¹⁰See also Noble County.

¹¹See also Morgan County.

2000 OHIO DIRECTORY OF PRODUCING COAL-MINE OPERATORS, BY COUNTY—Continued

Name of company	Name of mine	Township	Seam		Type of mine	Production		Days in production in 2000	Disposition		Employment			State mine number
			Number	Thickness (inches)		Method	Tonnage		Method	Tonnage	Underground	Production surface	Non-production	
TUSCARAWAS COUNTY (continued)														
Holmes Limestone Co. (cont.)	Stone Creek-Spring	York	5, 6		surface	strip auger Total	118,497 43,918 162,415	239	truck	162,415		9	1	Ts-H4
	Miller Pit Kimble Clay & Limestone Co.	Sugar Creek Dover	6 5 6	20 30 38	surface	strip strip auger Total	583 104,066 7,154 111,220	14 312	truck truck	583 111,220		1 6		Ts-JM Ts-K6
JM Mining & Reclamation Kimble Clay & Limestone Co.	Kimble Clay & Limestone Co.	Dover	4 5 6	12 32 36	surface	strip	33,601	69	truck	33,601		5		Ts-1727
	Kimble Clay & Limestone Co.	Sugar Creek	3A 4	24 14	surface	strip auger Total	494 201 695	2	truck	696		1		Ts-K4
	Kimble Clay & Limestone Co.	York	5 6	36 28	surface	strip auger Total	26,671 10,195 36,866	93	truck	36,866		1		Ts-RM
	Kimble Clay & Limestone Co.	York	5 6 7	28 28 38	surface	strip auger Total	57,713 15,841 73,554	114	truck	73,554		5		Ts-2019
	Kimble Clay & Limestone Co.	Washington	6	28	surface	strip auger Total	6,484 3,166 9,650	51	truck	9,650		2		Ts-H6
	Kimble Clay & Limestone Co.	Washington	7	27	surface	strip auger Total	24,552 12,264 36,816	186	truck	36,816		2		Ts-K5
L & M Mineral Co.	Luikart Spring	Mill, Warwick Mill	5, 6 5, 6		surface	strip strip	8,726 792	28 2	truck truck	8,726 792		2 1	1	Ts-1914 Ts-1982
	Elliott-Smith Braver	Salem Union	6 7	36	surface surface	strip strip auger Total	1,972 28,428 3,494 31,922	30 211	truck truck	1,972 31,922		1 5	2 1	Ts-VM Ts-V2

VINTON COUNTY—Total production = 1,926,446 tons											
Sands Hill Coal Co., Inc.	Elk	Elk	41	surface	strip	108,973	truck conveyor Total	23,754 85,219 108,973			Vn-S3
	Elk	Elk	41	surface	strip	234,928	255	51,209 183,719 234,928	14		Vn-S2 ⁹
	Sands Hill Rockcamp II	Wilkesville	48	surface	strip	229,786	130	50,088 179,698 229,786	35		Jkn-S2 ¹⁰
Southern Ohio Coal Co.	Meigs Mine #2	Vinton	52	drift	longwall cont. miner Total	415,846 81,952 497,798	72	497,798	45	17	Ms-294 ¹¹
	Dundas Pit	Clinton	50	surface	strip	818,579	276	818,579	52	26	Vn-191
	Allied Pit	Elk	18	surface	strip	32,923	30	32,923	3	1	Vn-184
B & N Coal, Inc.	Mitchell Hollow Pit	Swan	30	surface	strip	3,459	30	3,459	3		Vn-172
	Shilling Pit	Aurelius	30	surface	strip	57,289	247	57,289	4	1	Ne-1008
WASHINGTON COUNTY—Total production = 57,289 tons											

⁹Employment reported for Vn-S2 includes Vn-S3.¹⁰See also Jackson County.¹¹See also Meigs County.

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS

For those mines for which the Division of Mines has not assigned a state mine number, a letter designation is used (example: Ts-A).

If there are no sales or production figures given for an operation, that operation reported no sales or production in 2000.

To convert short tons to metric tons, multiply the given tonnage by 0.907185.

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
A-1 All Ohio Sand & Gravel Co. 81 Vaughn Rd. Akron, OH 44319 330-644-0700 Sam Serves, pres.	A-1 All Ohio Sand & Gravel Co. (583)	Summit	sand & gravel			St-50	IM-722
ATS Enterprises P.O. Box 128 Haverhill, OH 45636 859-299-7001 Steve Lawson, plant mgr.	ATS Enterprises (306)	Scioto	sand & gravel	358,692	422,100	So-79	IM-221
Acme Sand & Gravel 128 First St. W Strasburg, OH 44680 330-878-7205 William Malcuit, owner	Acme Sand & Gravel (612)	Tuscarawas	sand & gravel			Ts-A	IM-1218
Agg Rok Materials 711 Frank Rd. Columbus, OH 43223 614-875-5500 William G. Heffner, pres.	Agg Rok (94)	Franklin	sand & gravel	665,821	672,123	Fn-36	IM-302
Alan Stone Co., Inc. P.O. Box 127 Chesterhill, OH 43728 740-554-6191 Claudia Staley, pres.	Alan Stone Co., Inc. (51) Marietta Quarry (43)	Belmont Washington	sandstone sandstone	12,150	12,150	Bt-1193 Wn-45	IM-1117 IM-125
William Albert, Inc. 1300 Cassingham Hollow Rd. Coshocton, OH 43812 740-622-3045 William Albert, pres.	William Albert Plant 1 (438) (88) William Albert Plant 2 (723)	Coshocton Coshocton	sand & gravel clay sand & gravel	10,850 9,510	11,312 10,112	Cn-828 Cn-WA	IM-1026 IM-2036
Alden Sand & Gravel Co. 2504 Northampton Rd. Cuyahoga Falls, OH 44223 330-928-3249 Connie Ensign, pres.	Alden Excavating (496)	Summit	sand & gravel	19,286	19,286	St-55	IM-589
Allgeier & Son, Inc. 6386 Bridgetown Rd. Cincinnati, OH 45248 513-574-3735 Michael E. Allgeier, pres.	Allgeier & Son, Inc. Pit 1 (521) Allgeier & Son, Inc. Pit 2 (467) Allgeier & Son, Inc. (520)	Hamilton Hamilton Hamilton	sand & gravel sand & gravel sand & gravel	90,000 50,000	90,000 50,000	Hmn-AS1 Hmn-AS Hmn-C	IM-797 IM-1106 IM-1132
Allied Corp., Inc. 1749 Highland Dr. Twinsburg, OH 44087 330-425-7861 Mark Shelly, pres.	Allied Corp., Inc. (435)	Stark	sand & gravel			Sk-173	IM-879
American Excavating, Inc. P.O. Box 374 Enon, OH 45323 937-882-1372 Robert E. Holland, pres.	American Excavating, Inc. (704)	Clark	sand & gravel	21,287	21,287	Ck-A	IM-1359
American Landfill, Inc. 7916 Chapel St. SE Waynesburg, OH 44688 330-866-3265 David A. Bower, Jr., pres.	American Landfill, Inc. (123) (123)	Stark	clay shale	31,154 293,960	31,154 293,960	Sk-246	IM-2024

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
American Sand & Gravel, Inc. 8188 Wales Rd. NW North Canton, OH 44720 330-494-6455 Christopher A. Scala, pres.	American Sand & Gravel, Inc. (710) Plant 1 (387) Plant 2 (386) Plant 4 (455)	Portage Portage Stark Stark	sand & gravel sand & gravel sand & gravel sand & gravel	94,590 1,078,147	94,590 1,078,147	Pe-A Pe-95 Sk-203 Sk-243	IM-1362 IM-212 IM-654 IM-908
Apache Aggregate & Paving Co. 46626 County Route 495 Coshocton, OH 43812 740-622-5904 Charlene B. Ross, pres.	Apache Aggregate & Paving Co. (69) Apache Aggregate & Paving Co. (70)	Coshocton Coshocton	sand & gravel sand & gravel	120,849	126,478	Cn-718 Cn-783	IM-227 IM-717
Ashcraft Sand & Gravel, Inc. 5850 Dry Fork Rd. Cleves, OH 45002 513-367-5700 Rick Ashcraft, v. pres.	Ashcraft Sand & Gravel, Inc. (120)	Hamilton	sand & gravel	79,164	79,164	Hmn-54	IM-710
Athens Hocking Reclamation Center 450 Gallagher Ave. Logan, OH 43138 740-385-6019 Edward F. Kilbarger, pres.	Athens Hocking Reclamation Center (81)	Athens	clay	271	271	As-594	
Atlas Towing Co. P.O. Box 1632 Parkersburg, WV 26101 304-428-0341 Christopher V. Criss, pres.	Belpre Bank Run (432)	Washington	sand & gravel	11,427	11,427	Wn-54	IM-383
Ayers Limestone Quarry, Inc. 2000 Colerain Pike P.O. Box 67 Martins Ferry, OH 43935 740-633-2958 Thomas E. Ayers, pres.	Ayers Limestone Quarry, Inc. (12)	Belmont	limestone	100,779	100,779	Bt-716	IM-1
B & L Excavating 4711 CR 1-2 Swanton, OH 43558 419-825-1218 Boyd Rhodes, owner	B & L Pit (654) Nowak (725)	Fulton Fulton	sand & gravel sand & gravel			Ftn-BL1 Ftn-BL2	IM-1282 IM-2025
B & L Sand Co. 441 Iowa St. Ashland, KY 41101 606-325-8301 Janet R. Griffiths, pres.	B & L Sand Co. (167)	Lawrence	sand & gravel	8,518	8,518	Le-430	IM-844
B & N Coal, Inc. P.O. Box 100 Dexter City, OH 45727 740-783-3575 Carl Baker, Jr., pres.	B & N Coal, Inc. (179)	Noble	limestone			Ne-B	IM-897
BPB-Celotex P.O. Box 280 Port Clinton, OH 43452 419-734-3153 Charles H. Johnson, plant mgr.	American #2 (1)	Ottawa	gypsum	230,137	230,137	Oa-2	IM-344
Brett Baisen 1812 Baker Rd. Springfield, OH 45504 937-390-6536 Brett Baisen, pres.	Baisen (718)	Clark	sand & gravel			Ck-B	IM-2026

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Baker Sand, Inc. 7800 White Rd. Burbank, OH 44214 330-948-1448 John E. Baker, pres.	Baker Sand, Inc. (203) Friendsville Sand, L.P. (558)	Medina Medina	sand & gravel sand & gravel	648,510 648,510	648,510 648,510	Ma-20 Ma-23	IM-448 IM-1177
Ballentine Excavation Co. 7854 Cooley Rd. Ravenna, OH 44266 330-297-9739 Daniel H. Ballentine, owner	Ballentine Lake (689)	Portage	sand & gravel	28,868	28,868	Pe-BA	IM-1327
Barrett Paving Materials, Inc. 8401 Sylvania Ave. Sylvania, OH 43560 734-483-4775 John Krispin, aggregate mgr.	Sylvania Quarry (160) (225)	Lucas	limestone shale	625,800 13,765	681,000 13,765	Is-12	IM-953
Barrett Paving Materials, Inc. Midwest South 7374 Main St. Cincinnati, OH 45244 513-271-6200 Michael D. Thompson, reg. mgr.	Barrett Paving Materials-Perintown (59)	Clermont	sand & gravel	295,324	325,968	Ct-9	IM-526
Barrett Paving Materials, Inc. Midwest Central P.O. Box 13591 Dayton, OH 45413-0591 937-279-3200 Gerald Bushelman, reg. mgr.	Barrett Paving Materials, Inc. (461) Barrett Paving Materials, Inc. (177) Gregory Stone, Inc. (66) Olive Road (734)	Clark Miami Miami Montgomery	sand & gravel limestone limestone sand & gravel	620,124 71,737 353,392	569,631 23,933 446,911	Ck-28 Mi-BPM Mi-502 My-B	IM-1100 IM-1169 IM-414 IM-2044
Bartley & Bolin Excavating 1242 County Rd. 1475 Ashland, OH 44805-9277 419-289-1507 Dale Bartley and Mitchell Bolin, owners	Bartley & Bolin, Inc. Plant #2 (6) Simanton Rd. (509) Bartley & Bolin, Inc. (409)	Ashland Ashland Richland	sand & gravel sand & gravel sand & gravel	248,814 17,675	248,814 17,675	Ald-9 Ald-16 Rd-20	IM-745 IM-1120 IM-617
Baycliffs Corp. 15400 Pearl Rd. #201 Strongsville, OH 44136 440-238-1905 Carl Zipfel, pres.	Johnson Island Quarry (198)	Ottawa	limestone			Oa-BC	IM-1288
Bearcreek Clay Co. 11123 State Route 37 East New Lexington, OH 43764 740-342-5473 Tom L. Dennis, owner	Dutch Ridge Rd. (108) (108) Saltillo (205) (205)	Perry Perry	clay shale clay shale	16,336 32,672 19,549 16,273	16,336 32,672 19,549 16,273	Py-338 Py-D1	IM-1092 IM-1304
Beaver Excavating, Inc. P.O. Box 6059 Canton, OH 44706 330-478-2151 W. Mark Sterling, pres.	Stone Products (607) (162)	Stark	sand & gravel shale	10,000	10,000	Sk-BE	IM-1202
Beck Sand & Gravel, Inc. 2820 Webb Rd. Ravenna, OH 44266 330-626-3863 Rodney Wenrich, pres.	Beck Sand & Gravel, Inc. (256)	Portage	sand & gravel	203,460	203,460	Pe-50	IM-96
Paul D. Beery Trucking Co. 4770 Cincinnati-Zanesville Rd. Lancaster, OH 43130 740-653-5061 Paul D. Beery, pres.	Paul D. Beery Trucking Co. (401)	Fairfield	sand & gravel	4,062	4,062	Fd-14	IM-933

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number	
Belden Brick Co. P.O. Box 20910 Canton, OH 44701 330-852-2424 Robert F. Belden, pres.	Moomaw Pit (187) (62) (56) (56)	Tuscarawas	limestone sandstone clay shale	10,018 92,332 61,351	10,018 92,332 61,351	Ts-1517	IM-46	
	Belden Pit (209) (78) (57) (57)	Tuscarawas	limestone sandstone clay shale	29,693 30,456	29,693 30,456	Ts-1646	IM-44	
	Wallick Pit (71) (58) (58)	Tuscarawas	sandstone clay shale	120,896 760	120,896 760	Ts-1841	IM-45	
	Shanesville Pit (206) (59) (59)	Tuscarawas	limestone clay shale	4,142 29,686 150,182	4,142 29,686 150,182	Ts-1939	IM-47	
	Beagle Pit (60)	Tuscarawas	clay			Ts-1960	IM-48	
	Plotner Pit (181) (147)	Tuscarawas	limestone clay			Ts-B	IM-49	
	Dundee (191) (177)	Tuscarawas	limestone clay			Ts-BB	IM-1221	
	Belville Mining #1 (159) (93)	Lawrence	limestone clay			Le-B	IM-1188, D-0746	
	Best Sand Corp. 11830 Ravenna Rd. Chardon, OH 44024 440-285-3132 Charles Fowler, pres.	Best Sand Corp. (17) Best Sand Corp. (45) Best Sand Corp. (34)	Geauga Pike Ross	sandstone sandstone sandstone	757,393 116,541	855,456 116,541	Gea-3 Pke-31 Rs-16	IM-89 IM-835 IM-172
	Beverly Slag Co. P.O. Box 599 McConnellsville, OH 43756 740-962-5621 Carl L. Price, v. pres.	Devola Pit (364)	Washington	sand & gravel	725	725	Wn-55	IM-669
Big T Mining P.O. Box 121 Haverhill, OH 45636 740-532-3951 Brian Hughes, owner	Big T Pit (663)	Scioto	sand & gravel			So-BT	IM-1286	
Bihn Excavating, Inc. 233 N. Lallendorf Rd. Oregon, OH 43616 419-693-3301 Michael J. Bihn, pres.	Central Office Park (732)	Lucas	sand & gravel			Is-BE	IM-2054	
Black Top Contracting, Inc. P.O. Box 426 Nelsonville, OH 45764 740-423-5455 Tim Maiden, pres.	Black Top #1 (19) York Twp.Trustees (702)	Athens Athens	sand & gravel sand & gravel			As-588 As-BT	IM-630 IM-1350	
E. E. Blair Construction Co. P.O. Box 309 Wheelersburg, OH 45694-0309 740-574-6575 Edwin E. Blair, pres.	Cab Pit (303)	Scioto	sand & gravel	93,711	93,711	So-98	IM-474	
Blue Jay Enterprises of Ts. Co., Inc. P.O. Box 641 Zoar, OH 44697 330-874-2048 Leland D. Ervin, pres.	Blue Jay #1 (200) (201) (201)	Tuscarawas	limestone clay shale	7,064 6,450	7,064 6,450	Ts-BJ	IM-1285	
	Swonger Waltz Mine (207) (85) (85)	Tuscarawas	limestone clay shale	249 13,209 676	249 13,209 676	Ts-520	IM-214	

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Blue Stone Sand & Gravel, Inc. 14376 N. Cheshire St. P.O. Box 567 Burton, OH 44021 440-834-1367 David W. Ronyak, pres.	Blue Stone Pit #1 (673) Blue Stone Pit #2 (674)	Portage Portage	sand & gravel sand & gravel	123,334	281,061	Pe-B1 Pe-B2	IM-1296 IM-1305
Bluffton Stone Co. P.O. Box 26 Bluffton, OH 45817-0026 419-358-6941 Brent C. Gerken, pres.	Bluffton Stone Co. (3)	Allen	limestone	379,818	351,458	An-1	IM-485
Blum Mining Co. P.O. Box 232 Carrollton, OH 44615 330-627-2670 Raymond Blum, pres.	Blum Mining Co. (161) (476)	Mahoning	limestone sand & gravel			Mg-629	IM-1008
Bowerston Shale Co. 1329 Seven Hills Rd. NE Newark, OH 43055 740-763-3921 Mark Willard, pres.	Hanover (31) Fazeysburg (38) (38)	Licking Muskingum	shale clay shale	26,541 8,470	26,541 8,470	Lg-501 Mum-776	IM-257 IM-256
Bowerston Shale Co. 515 Main St. P.O. Box 199 Bowerston, OH 44695 740-269-2921 Mark Willard, pres.	Bowerston (11) Scott Farm (109)	Harrison Harrison	shale shale	30,000	30,000	Hn-152 Hn-B	IM-42 IM-1020
Gaston Bowling, Inc. P.O. Box 330 Oxford, OH 45056 513-523-8805 Gaston Bowling, pres.	Indian Creek Sand & Gravel (37)	Butler	sand & gravel	680	680	Br-40	IM-493
D. H. Bowman & Sons, Inc. 1201 Mill St. Bellville, OH 44813-1282 419-886-2711 Richard D. Bowman, pres.	D. H. Bowman & Sons, Inc. (287)	Richland	sand & gravel	48,046	59,177	Rd-4	IM-279, IM-1255
Boyas Excavating, Inc. 10055 Sweet Valley Dr. Cleveland, OH 44125-4247 216-447-0175 Pete Boyas, pres.	Valley View Quarry (595) (13)	Cuyahoga	sand & gravel sandstone			Cya-42	IM-686
Boyd Excavating 9553 County Rd. 28 Zanesfield, OH 43360 937-465-3290 Jeff Boyd, owner	Boyd Excavating (669)	Logan	sand & gravel	9,812	9,812	Lgn-B	IM-1309
Briar Hill Stone Co. P.O. Box 457 Glenmont, OH 44628 330-377-5100 F.L. Waller, pres.	Quarry #26 (4) Quarry #3 (5) Quarry #32 (6) Quarry #24 (7) Quarry #18 (8) Quarry #54 (46) Quarry #55 (44) Quarry #31 (19) Quarry #6 (23)	Coshocton Coshocton Coshocton Coshocton Coshocton Coshocton Coshocton Holmes Knox	sandstone sandstone sandstone sandstone sandstone sandstone sandstone sandstone sandstone	260 7,650 3,563 12,621	260 7,650 3,563 12,621	Cn-13 Cn-659 Cn-686 Cn-692 Cn-695 Cn-809 Cn-815 Hs-49 Kx-12	IM-397 IM-232 IM-504 IM-294 IM-402 IM-909 IM-939 IM-418 IM-445
Briggs Sand & Gravel, Inc. Route 4 Box 303 County Rd. 10 Marietta, OH 45750 740-373-3363 James F. Briggs, pres.	Briggs Sand & Gravel, Inc. (365)	Washington	sand & gravel	6,182	6,182	Wn-508	IM-57

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Broadway Sand & Gravel, Inc. 2000 Sandridge Dr. Dayton, OH 45439 937-299-1166 George D. Jones, v. pres.	Broadway Sand & Gravel, Inc. (225)	Montgomery	sand & gravel			My-65	IM-594
Broshear Contractors, Inc. 2520 Millville-Ross Rd. Hamilton, OH 45013 513-863-3388 Gerald Broshear, pres.	Green Heron (716) Ross Twp. Gravel (31)	Butler Butler	sand & gravel sand & gravel	75,351	75,351	Br-B Br-48	IM-2029 IM-562
Gary L. Brown 900 W. South Boundary St., Bldg. 10 Perrysburg, OH 43551 419-872-4202 Gary L. Brown, pres.	Gary L. Brown (682)	Lucas	sand & gravel			Ls-GB	IM-1323
Browning-Ferris Industries of Ohio, Inc. 530 North Camp Rd. Port Clinton, OH 43452 419-635-2367 David Vossmer, gen. mgr.	Ottawa County Landfill (198)	Ottawa	clay	177,120	177,120	Oa-BF	IM-1287
Oscar Brugmann Sand & Gravel, Inc. 3828 Dudley Rd. Mantua, OH 44255 330-274-8224 Roy Brugmann, pres.	Oscar Brugmann Sand & Gravel, Inc. (258) (70) Oscar Brugmann Sand & Gravel, Inc. (628)	Portage Portage	sand & gravel sandstone sand & gravel	521,783 29,224	575,000 35,000	Pe-9 Pe-OB	IM-119 IM-1241
Brush Wellman, Inc. 14710 W. Portage River South Rd. Elmore, OH 43416-9502 419-862-2745 John Cayton, envirn. engineer	Brush Wellman Clay Mine (136)	Ottawa	clay			Oa-19	IM-1153
Buckeye Excavating Development, Inc. P.O. Box 102 Orrville, OH 44667 330-682-0730 Steven R. Steiner, partner	Steven Steiner (535)	Wayne	sand & gravel	18,290	18,290	We-23	IM-1136
Buckeye Industrial Mining Co. P.O. Box 389 Lisbon, OH 44432 330-337-9511 John C. Grisham, pres.	West Point (178) West Point Clay (192) (186) (186) Cable Job (146) (146) Close (200) (200) Robertsville (189) (189) Anthony (222)	Columbiana Columbiana Stark Stark Stark Stark	clay limestone clay shale clay shale clay shale clay	48,000 12,249	48,000 12,249	Ca-987 Ca-BIM Sk-247 Sk-B Sk-BI Sk-BIM	D-0928 IM-1271 D-0929 D-1123 D-1043 IM-1361
James Bunnell, Inc. 5730 State Route 128 Cleveland, OH 45002 513-353-1100 Jack Ernst, pres.	James Bunnell, Inc. (123) James Bunnell, Inc. (124)	Hamilton Hamilton	sand & gravel sand & gravel	219,551 936,462	219,551 936,462	Hmn-50 Hmn-59	IM-205, IM-1139 IM-812, IM-815
Burlington Sand & Gravel Co. P.O. Box 399 Chesapeake, OH 45619 740-894-5978 Vernon E. Collier, owner	Burlington Sand & Gravel Co. (170)	Lawrence	sand & gravel	3,030	3,030	Le-426	IM-856

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
The Terry Byrne Mining Co. 4775 Mill Run Rd. Lexington, OH 44904 419-886-4345 Terrance K. Byrne, owner	The Terry Byrne Mining Co. (699)	Richland	sand & gravel			Rd-TB	IM-1343
C & S Contractors, Inc. P.O. Box 42459 Cincinnati, OH 45242 513-530-9844 Raymond A. Conn, pres.	C & S Contractors, Inc. (356)	Warren	sand & gravel			Wan-47	IM-846
C.I.R., Inc. 2856 N. County Line Rd. Geneva, OH 44041-9604 440-352-2256 Louis W. Pirc, pres.	Harmon (625)	Lake	sand & gravel	133	133	Lke-CIR	IM-1243
Cargill Incorporated Cargill Salt Division P.O. Box 6920 Cleveland, OH 44101 216-651-7200 Tim Harter, plant mgr.	Cargill Salt Inc. (1) Cargill Incorporated (4)	Cuyahoga Summit	salt salt	2,943,662 314,810	2,281,000 316,369	Cya-30 St-9127	
Carmeuse/Maple Grove Stone P.O. Box 136 Old Fort, OH 44861 419-992-4236 Tim Bell, pres.	Maple Grove Stone Co. (106)	Seneca	limestone			Sa-2	IM-352
Joe E. Carter 21399 State Line Rd. Lawrenceburg, IN 47025 812-537-3970 Joe E. Carter, owner	Lost Bridge (642)	Hamilton	sand & gravel	500	500	Hmn-JC	IM-1267
Carter & Carter, Inc. P.O. Box 266 Miamisburg, OH 45343-0266 937-859-1036 Charles V. Carter, pres.	Carter & Carter, Inc. (561) (157)	Montgomery	sand & gravel clay	3,421	3,470	My-CW	IM-878
Cashen, Inc. 1225 Dock Rd. Madison, OH 44057 440-428-1148 Andrew Cashen, owner	Cashen, Inc. (597)	Lake	sand & gravel			Lke-C	IM-1215
Cedar Heights Clay Co. P.O. Box 295 Oak Hill, OH 45656-0295 740-682-7794 William T. Brown, pres.	Sadler (145) Harrison (195) Phillips (230)	Jackson Jackson Jackson	clay clay clay	47,246	47,246	Jkn-CH1 Jkn-CH2 Jkn-CH3	IM-1182 IM-1302 IM-2035
Center West Enterprise, Inc. 1544 N. Main St. Niles, OH 44446 330-544-0890 Andrew Basil Polivka, pres.	Center West Enterprise, Inc. (611)	Trumbull	sand & gravel			TI-C	IM-1190
Central-Allied Enterprises, Inc. P.O. Box 80449 Canton, OH 44708-0449 330-477-6751 Gerald S. Orn, pres.	Massillon Washed Gravel Div. (325) Canton Aggregate Div. (318) Canton Aggregate Div. (319) Central Aggregate Div. (631) Massillon Washed Gravel Div. (578)	Stark Stark Stark Stark Stark	sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel	3,750 676,718 676,718 117,680 277,921	3,750 676,718 676,718 117,680 277,921	Sk-607 Sk-681 Sk-689 Sk-CA Sk-MW	IM-102 IM-164 IM-173 IM-1234 IM-1171
Central Ohio Coal Co. P.O. Box 98 Cumberland, OH 43732-0098 740-558-7214 Charles A. Ebetino, Jr., pres.	Horse Run Stone Quarry (73)	Morgan	limestone			Mon-600	D-1034

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Charlestown Sand & Gravel, Inc. 7845 State Route 5 Ravenna, OH 44266 330-296-9233 Yale Stuble, pres.	Charlestown Sand & Gravel, Inc. (259)	Portage	sand & gravel			Pe-17	IM-123
Chesterhill Stone Co. 773 East State Route 60 NE P.O. Box 599 McConnelsville, OH 43756 740-962-5621 Carl L. Price, pres.	Buck Farm (240) Fordham Farm (735) East Fultonham (75) Willow Island (675)	Morgan Morgan Muskingum Washington	sand & gravel sand & gravel limestone sand & gravel	97,396 51,518 744,757 255,261	97,341 54,024 756,288 283,097	Mon-588 Mon-CS1 Mum-106 Wn-C	IM-35 IM-2049 IM-297 IM-1315
Chesterville Sand & Gravel Co., Inc. State Route 95 E P.O. Box 51 Chesterville, OH 43317 419-768-3369 Carrol D. Gleason, pres.	Chesterville Sand & Gravel Co., Inc. (242)	Morrow	sand & gravel	167,354	167,354	Mw-10	IM-258
Christman Quarry 47278 Swazey Rd. Lewisville, OH 43754 740-838-2475 Gerald L. Christman, owner	Christman Quarry (163)	Monroe	limestone	67,430	67,430	Me-C	IM-1088
Clark Clay Inc. 6878 Twp. Rd. 310 Millersburg, OH 44654 330-674-2225 Dennis S. Clark, owner	Clark Clay Inc. (17)	Holmes	clay			Hs-56	
Clemson Excavating, Inc. 9954 Old State Rd. Chardon, OH 44024 440-286-4757 Bill Clemson, pres.	Clemson (635)	Ashtabula	sand & gravel	53,169	53,169	Asa-C	IM-1278
Cleveland Quarries P.O. Box 261 Amherst, OH 44001-0261 440-986-4501 James Rallo, pres.	Birmingham Quarry (14) Amherst Quarries (27)	Erie Lorain	sandstone sandstone	7,199	12,976	Ee-21 Ln-3	IM-416 IM-415
Clinton Stone, Inc. P.O. Box 650 Hamden, OH 45634-0650 740-384-4211 Bonny Huffman, pres.	Sands Hill (124)	Vinton	limestone			Vn-174	D-0309
M.J. Coates Construction Co., Inc. P.O. Box 41231 Dayton, OH 45441 937-433-1581 Martin J. Coates, owner	M.J. Coates Construction Co., Inc. (548) M.J. Coates Construction Co., Inc. (550)	Greene Greene	sand & gravel sand & gravel	76,213 70,132	76,213 70,132	Ge-47 Ge-G	IM-751 IM-655
Cochran Transportation Services, Inc. P.O. Box 578 Athens, OH 45701 740-593-3906 Charles W. Cochran, pres.	Circle Hill Sand & Gravel, Inc. (458) (87)	Athens	sand & gravel clay	19,913	19,913	As-595	IM-1083
Boone Coleman Construction, Inc. 32 State Route 239 West Portsmouth, OH 45663 740-858-6661 Boone Coleman, pres.	Coleman Pit (576) Boone Coleman Construction, Inc. (73)	Scioto Scioto	sand & gravel sandstone			So-B So-BC	IM-705 IM-1252

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Bill D. Colwell P.O. Box 261 Somerville, OH 45064 513-726-6800 Bill D. Colwell, owner	Bill D. Colwell (28)	Butler	sand & gravel	47,000	47,000	Br-36	IM-649
Complete Resources Co. 1275 E. Fifth Ave. Columbus, OH 43219 614-253-6415 Fred Lawson, pres.	Darby Materials Plant #5 (648)	Pickaway	sand & gravel	111,087	118,641	Fn-C	IM-1265
Con-Ag, Inc. 16672 County Rd. 66A North St. Marys, OH 45885 419-394-8870 Robert E. Hirschfeld, pres.	Con-Ag, Inc. (10)	Auglaize	limestone	204,529	219,699	Ae-31	IM-744
Countryside Waste Services, Inc. 6141 Depweg Rd. Celina, OH 45822 419-925-4592 Brad L. Green, gen. mgr.	Countryside Waste Services, Inc. (209)	Mercer	clay			Mr-C	IM-1341
Countywide Recycling and Disposal Facility 3619 Gracemont St. SW East Sparta, OH 44626 330-874-3855 Tim Vandersall, gen. mgr.	Countywide landfill (231)	Stark	clay	44,265	44,265	Sk-CR	IM-2020
County Disposal (Ohio), Inc., dba County Environmental of Wyandot 11164 CR 4 Carey, OH 43316 419-396-3581 Jim Van Weelden, reg. v. pres.	County Disposal (Ohio), Inc. (224)	Wyandot	clay	114,452	114,452	Wt-CD	IM-2016
County Line Concrete & Supply Co. P.O. Box 176 Gnadenhutten, OH 44629 740-254-4635 William E. Stocker, Chairman	County Line Concrete & Supply Co. (668)	Coshocton	sand & gravel			Cn-C	IM-1311
Donald A. Coy 3112 Clark Mill Rd. Norton, OH 44203 330-753-6640 Donald A. Coy, owner	Donald A. Coy (686)	Summit	sand & gravel	9,950	9,950	St-DC	IM-1346
Craigton Shale Co. P.O. Box 6 Lakeville, OH 44638 330-496-3000 Lenny Schemrich, owner	Lakeville Sand & Gravel (670) Craigton Shale Co. (165)	Holmes Wayne	sand & gravel shale	112,819	112,819	Hs-C We-25	IM-1303 IM-1209
Cremeans Concrete & Supply Co., Inc. Georges Creek Rd. P.O. Box 475 Gallipolis, OH 45631 740-446-1142 Frank A. Cremeans, pres.	Cremeans Concrete & Supply Co., Inc. (440)	Gallia	sand & gravel			Ga-626	IM-1046
Crosby Gravel 9570 State Route 128 Harrison, OH 45030 513-738-0077 Donald Smith, pres.	Crosby Gravel (121)	Hamilton	sand & gravel	102,893	102,893	Hmn-44	IM-120

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
R.A. Cruise Sand & Gravel, Inc. P.O. Box 1066 Ravenna, OH 44266 330-296-4087 Larry A. Cruise, pres.	R.A. Cruise Sand & Gravel, Inc. (261)	Portage	sand & gravel	16,641	91,783	Pe-45	IM-139
Cunningham Asphalt Paving, Inc. P.O. Box 370 Wheelersburg, OH 45694 740-574-6184 Karl Cunningham, pres.	Cunningham Pit (304)	Scioto	sand & gravel			So-83	IM-211
Custar Stone Co. P.O. Box 629 Napoleon, OH 43545 419-533-7701 Brent Gerken, pres.	Custar Stone Co. (129)	Wood	limestone	321,163	318,288	Wd-5	IM-473
D. & D. Mining Co. 3379 E. Garfield Rd. New Springfield, OH 44443 330-549-3127 Donald Thompson, pres.	D. & D. Strip (130) (130)	Columbiana	clay shale	27,135	27,135	Ca-348	IM-976
	D. & D. Mining Co. (57) (164)	Columbiana	sandstone clay			Ca-888	IM-1181
D & K Materials, Inc. 3141 Congress Lake Rd. Mogadore, OH 44260 330-678-2411 Kimberly S. Ebie, pres.	D & K Materials, Inc. (568) (199)	Portage	sand & gravel clay	33,000	33,000	Pe-101	IM-1154
D & W Sand & Gravel 10677 Wren Rd. Mechanicsburg, OH 43044 937-834-2548 Dale Potter, owner	D & W Sand & Gravel (49)	Champaign	sand & gravel			Cpn-21	IM-616
D.B.M. Materials, LLC 2040 Alum Creek Dr. Columbus, OH 43207 614-445-8421 John B. Igel, pres.	D.B.M. Materials, LLC (97)	Franklin	sand & gravel	125,201	134,823	Fn-14	IM-832
D.G.M., Inc. 453 Salisbury Rd. Beaver, OH 45613 740-820-3145 Thomas Salisbury, pres.	Tow Path Ready Mix (664)	Scioto	sand & gravel	23,129	23,129	So-DGM	IM-1280
Darby Creek Excavating, Inc. 6790 Brooksmiller Rd. Circleville, OH 43113 740-477-8600 Kevin R. Steward, pres.	Darby Creek Excavating, Inc. (671)	Pickaway	sand & gravel	34,500	34,500	Pky-DC	IM-1316
Davon, Inc. 4281 Roush Rd. Hillsboro, OH 45133 937-364-2311 John B. Patton, pres.	Plum Run Stone (1)	Adams	limestone	1,910,000	1,985,000	Ads-1	IM-237
	Eagle Crushed Stone (184)	Brown	limestone	1,090,000	1,125,000	Bn-EC	IM-1195
	Davon, Inc. (219)	Highland	limestone			Hd-D	IM-2071
	Highland Stone (41)	Highland	limestone	815,000	818,000	Hd-2	IM-230
	Piketon Sand & Gravel (255)	Pike	sand & gravel	470,000	515,000	Pke-24	IM-222
	Scioto Valley Resources (395)	Scioto	sand & gravel	265,000	253,000	So-100	IM-950
De Milta Sand & Gravel, Inc. 921 Erie Rd. Eastlake, OH 44095 440-942-2015 Nick De Milta, pres.	De Milta Sand & Gravel, Inc. (598)	Lake	sand & gravel			Lke-D	IM-1187

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Demmy Construction, Inc. 4324 Fairfield Pike Springfield, OH 45502 937-323-4079 Daniel E. Demmy, pres.	Demmy Constuction, Inc. (216) (385)	Clark	limestone sand & gravel	17,732 24,314	17,732 24,314	Ck-501	IM-340
Demmy Sand & Gravel 4324 Fairfield Pike Springfield, OH 45502 937-323-9844 Woodrow Demmy, owner	Demmy Sand & Gravel (54)	Clark	sand & gravel	8,704	8,704	Ck-502	IM-375
A. J. Diana Sons, Inc. 1916 Erie Ave. NW P.O. Box 488 Massillon, OH 44648 330-832-5904 Virgil V. Diana, pres.	Neidert Pit (320)	Stark	sand & gravel			Sk-694	IM-858
Dingledine Basic Materials, Inc. 2304 Somerville Rd. P.O. Box 262 Somerville, OH 45064 513-726-5258 Gerald Dingledine, pres.	Dingledine Basic Materials, Inc. (32)	Butler	sand & gravel	54,000	83,000	Br-50	IM-739
Dome Minerals, Inc. 15601 Emerick Rd. Kensington, OH 44427 330-223-1413 Fred A. Rogers, owner	Dome Minerals, Inc. (79)	Columbiana	shale	32,500	32,500	Ca-947	IM-935
Don's Dozer Service, Inc. 8200 Seasons Rd. Streetsboro, OH 44241 330-626-5147 Donald R. McElravy, pres.	Don's Dozer Service, Inc. (529)	Portage	sand & gravel	400	700	Pe-96	IM-792
James E. Downard 1185 Zwingli Rd. Bremen, OH 43107 740-569-7849 James E. Downard, owner	Downard Pit (541) (155)	Fairfield	sand & gravel clay	1,846	1,846	Fd-16	IM-1156
C. E. Duff & Son, Inc. 9042 State Route 117 P.O. Box 305 Huntsville, OH 43324-0305 937-686-2488 James E. Duff, pres.	C. E. Duff & Son, Inc. (156) C. E. Duff & Son, Inc. (444) C. E. Duff & Son, Inc. (50) Duff Sand Co. (182) C. E. Duff & Son, Inc. (420) C. E. Duff & Son, Inc. (183)	Hardin Logan Logan Logan Logan Logan	limestone sand & gravel limestone sand & gravel sand & gravel sand & gravel	30,260 382,868 7,930	30,260 382,868 7,930	Hdn-S Lgn-12 Lgn-15 Lgn-31 Lgn-36 Lgn-39	IM-1034 IM-1071 IM-453 IM-454 IM-1007 IM-887
E.A. Construction, Inc. 7013 S. Funk Rd. Shreve, OH 44676 330-496-2531 Ellis Aylesworth, pres.	#1 (613) #1 (74) (185)	Wayne Wayne	sand & gravel sandstone clay	32,310 3,178	32,310 3,178	We-24 We-EA	IM-1211 IM-1259
ENZ, Inc. P.O. Box 405 Magnolia, OH 44643 330-866-4510 James R. Demuth, pres.	Fox Pit (225) Sickafoose Pit (205) (203) (203)	Stark Stark	limestone limestone clay shale	3,810 170,835 146,705	3,810 170,835 146,705	Sk-205 Sk-208	D-1144 D-1015
ESSROC Cement Corp. P.O. Box 779 Bessemer, PA 16112 724-667-7702 Robert Rayner, pres.	Bessemer Pit (57) (34) (34) Carbon Pit (162) (107) (107)	Mahoning Mahoning	limestone clay shale limestone clay shale	126,567 4,190 81,564 608,250 2,048	126,567 4,190 81,564 608,250 2,048	Mg-608 Mg-EM	IM-4 IM-1056

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Eagle Material 1400 Tharp Rd. Alexandria, OH 43001 740-924-1066 Rock Van Wey, pres.	Eagle Material Supply (600)	Licking	sand & gravel	224,936	250,000	Lg-W	IM-1213
East Fairfield Coal Co. 10900 South Ave. P.O. Box 217 North Lima, OH 44452 330-549-2165 W. Thomas Mackall, pres.	Withers-Petersburg (171) (602) (53) (118)	Mahoning	limestone sand & gravel sandstone clay	801,240 22,252	867,401 22,252	Mg-631 ¹	IM-1103
Eaton Sand & Gravel Co. 11641 Mosteller Rd. Cincinnati, OH 45241 513-771-0820 James P. Jurgensen, pres.	Cleves Pit (132)	Hamilton	sand & gravel			Hmn-46	IM-396
David E. Edgington P.O. Box 282 Frankfort, OH 45628 740-998-5328 David E. Edgington, owner	Edgington Pit (573)	Ross	sand & gravel	2,848	2,848	Rs-E	IM-1168
Embro, Inc. 8320 North State Route 123 Franklin, OH 45005 513-746-6121 Ronald Martz, pres.	Embro, Inc. (589)	Warren	sand & gravel			Wan-7	IM-151
Enon Washed Sand & Gravel Co. 1665 Enon Rd. P.O. Box 363 Enon, OH 45323 513-651-5000 John Steele, Jr., pres.	Enon Washed Sand & Gravel Co. (57)	Clark	sand & gravel	363,940	327,758	Ck-3	IM-463
Erie Blacktop, Inc. 4507 Tiffin Ave. P.O. Box 2308 Sandusky, OH 44870 419-625-7374 Dean Wikel, pres.	Erie Blacktop Quarry (24) (637) Erie Blacktop, Inc. (417)	Erie Huron	limestone sand & gravel sand & gravel	167,463 201	167,463 201	Ee-27 Hrn-16	IM-608 IM-975
Erie Materials, Inc. 4507 Tiffin Ave. Sandusky, OH 44870 419-625-7374 Dean Wikel, pres.	Borchardt (83)	Erie	sand & gravel	150	150	Ee-18	IM-676
Erie Sand & Gravel Co. P.O. Box 179 Erie, PA 16512-0179 814-453-6721 Sidney E. Smith, III, pres.	Erie Sand & Gravel Co. (1)	Lake Erie	sand & gravel	671	671	Ee-dredge	
Feikert Sand & Gravel, Inc. 6971 County Rd. 189 Millersburg, OH 44654 330-674-0038 Lynn O. Feikert, pres.	Feikert Sand & Gravel, Inc. (154) Woodlawn Associates Mine (727)	Holmes Holmes	sand & gravel sand & gravel	104,832 9,000	104,832 9,000	Hs-511 Hs-F1	IM-1048, IM-1240 IM-2045
Fenner Sand & Gravel, Inc. 7131 W. Fenner Rd. Ludlow Falls, OH 45339 937-698-7048 Robert P. Snead, pres.	Woodville Concrete Corp. (222)	Miami	sand & gravel	104,000	104,000	Mi-4	IM-472

¹This mine began underground limestone mining operations in 2000.

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Fleming Construction Co., Inc. dba Scioto Sand & Gravel P.O. Box 31 Marion, OH 43301-0031 740-494-2177 Gerald E. Fleming, pres.	Pit #1 (197) Pit #2 (423)	Marion Marion	sand & gravel sand & gravel	16,892 2,411	16,892 2,411	Mn-16 Mn-19	IM-171 IM-990
Flesher Sand & Gravel, Inc. 3322 Clark Mill Rd. Norton, OH 44203 330-745-9239 James E. Fisher, pres.	McCoy Pit (327)	Summit	sand & gravel	1,643	1,643	St-52	IM-900
David L. Florence Route 4, Box 88 Marietta, OH 45750 740-374-6008 David S. Florence, owner	Florence Pit (80) (163)	Washington	sandstone clay	20,063	20,063	Wn-F	IM-1208
Foureman's Sand & Gravel, Inc. 2791 Wildcat Rd. Greenville, OH 45331 937-548-1718 Gary B. Foureman, pres.	Foureman's Sand & Gravel, Inc. (80)	Darke	sand & gravel	90,713	90,713	Dke-4	IM-433
Fox Stone Products, Inc. P.O. Box 299 Put-in-Bay, OH 43456 419-285-3025 Richard H. Fox, owner	Fox Stone Products, Inc. (180)	Ottawa	limestone			Oa-18	IM-635
Lloyd B. Fry P.O. Box 1515 Piqua, OH 45356 937-773-1940 Lloyd B. Fry, pres.	Lloyd B. Fry (390)	Miami	sand & gravel			Mi-T	IM-696
Frye Sand & Gravel, Inc. 3049 S. Denmark Rd. P.O. Box 3 Dorset, OH 44032-0003 440-858-2627 Harold L. Frye, owner	Frye Sand & Gravel, Inc. (9) Frye Sand & Gravel, Inc. (650)	Ashtabula Ashtabula	sand & gravel sand & gravel	2,893 712	2,893 712	Asa-10 Asa-F	IM-198 IM-1289
GANS Ltd. 800 W. Maple St. Hartville, OH 44632 330-877-2525 Ellis Erb, pres.	GANS Ltd. dba Brimfield Sand & Soils (605)	Portage	sand & gravel	15,601	5,500	Pe-102	IM-1184
Ganges Gravel Co. P.O. Box 638 Mansfield, OH 44901 419-896-3660 Don Daugherty, pres.	Ganges Gravel Co. (289)	Richland	sand & gravel	12,891	12,891	Rd-18	IM-670
John L. Garber Materials, Inc. Route 8 Lexington, OH 44904 419-884-1567 John L. Garber, pres.	John L. Garber Materials, Inc. (290)	Richland	sand & gravel	211,661	220,000	Rd-14	IM-436
General Clay Products Corp. 1445 W. Goodale Blvd. Columbus, OH 43212 614-486-0614 Harold B. Epler, Jr., pres.	Drescher Pit (6) (6) General Clay-Diamond Pit (110) (110) General Clay Products Pit #5 (37) (37) Plant #7 (73) (73)	Coshocton Hocking Medina Wyandot	clay shale clay clay shale clay shale			Cn-787 Hg-330 Ma-6 Wt-7	IM-610 IM-1013 IM-455 IM-407

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
General Motors PowerTrain 26427 State Route 281 East Defiance, OH 43512 419-782-7010 Michael Chapman, pres.	GMPT clay borrow area (217)	Defiance	clay			De-3	IM-1351
Gibson Sand & Gravel Co. 1475 Knorr Rd. Galion, OH 44833 419-468-5820 John Gibson, owner	Gibson Sand & Gravel Co. (724)	Crawford	sand & gravel	632	632	Cd-G	IM-0693
Glen-Gery Corp. P.O. Box 398 Caledonia, OH 43314 419-845-3321 Steve Matsick, pres.	Iberia Quarry (36)	Marion	shale	220,959	220,959	Mn-7	IM-309
Golden Crescent Construction, Inc. 1104 Milan Ave. Amherst, OH 44001 440-967-6822 Samuel T. Bartlett, pres.	Golden Crescent Construction, Inc. (66)	Lorain	sandstone			Ln-14	IM-1205
Golsch Construction, Inc. 9880 Valley Junction Rd. Cleves, OH 45002 513-353-2555 Gary Golsch, pres.	Golsch (641)	Hamilton	sand & gravel	9,800	10,000	Hmn-G	IM-1270
Joyce A. Good 1203 Kieffer St. Wooster, OH 44691 330-264-6803 Joyce A. Good, owner	Joyce A. Good (508)	Ashland	sand & gravel	1,694	1,694	Ald-G	IM-1121
Good Builders, Inc. 35222 Hocking Dr. Logan, OH 43138 740-385-5872 Steve Good, owner	Good Builders, Inc. (596) (171)	Hocking	sand & gravel clay			Hg-G	IM-1201
Goshen Sand & Gravel 1012 Commercial Ave. SE New Philadelphia, OH 44663 330-339-3339 Ben Cookson, Jr., pres.	Benco Leasing dba Goshen Sand & Gravel (389)	Tuscarawas	sand & gravel			Ts-1976	IM-942, IM-1235
Graymont Dolime (OH) Inc. P.O. Box 158 Genoa, OH 43430 419-855-8336 William Dodge, pres.	GenLime Inc. (85)	Ottawa	limestone	1,168,256	1,289,226	Oa-1 ²	IM-292
Gray Road Fill, Inc. 325 Clark Rd Cincinnati, OH 45215 513-761-4980 Roy B. Schweitzer, pres.	Gray Road Fill, Inc. (211)	Hamilton	limestone			Hmn-GR	IM-1363
Green Oaks Potting Products, Inc. 2222 Lake Rockwell Rd. P.O. Box 979 Ravenna, OH 44266 330-296-2157 John Lyon, pres.	Green Oaks (451) (161) (7)	Portage	sand & gravel clay peat			Pe-89	IM-1142

²Graymont Dolime (OH) Inc. and Stansley Mineral Resources operate from same mine.

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Louis A. Green and Associates 1356 N. Fairfield Rd., Suite D Beavercreek, OH 45432 937-431-0143 Louis A. Green, owner	Deam (719)	Clark	sand & gravel			Ck-LG	IM-2073
H.T. Griffin Excavating, Inc. 3950 S. Berkey Southern Rd. Swanton, OH 43558 419-826-0230 Henry T. Griffin, owner	H.T. Griffin Excavating, Inc. (472)	Lucas	sand & gravel			Ls-G	IM-1090
Grimes Excavating Route 3 Box 121 New Matamoras, OH 45767 740-865-3990 Lewis Grimes, owner	Grimes Sand & Gravel (533)	Washington	sand & gravel	179,074	179,074	Wn-1008	IM-1111
Gwin Contracting Co. P.O. Box 205 Columbiana, OH 44408 330-482-2092 Lyle D. Gwin, pres.	Gwin Contracting Co. (30)	Mahoning	sandstone			Mg-62	IM-599
J. M. Hamilton & Sons Co., Inc. 1974 Marion-Bucyrus Rd. Marion, OH 43302 740-382-2189 Oliver E Hamilton, pres.	J. M. Hamilton & Sons Co., Inc. (59)	Marion	limestone	79,093	79,093	Mn-2	IM-423
Hanson Aggregates Midwest, Inc. 8130 Brint Rd. P.O. Box 278 Sylvania, OH 43560-0278 419-882-0123 John B. Lawson, pres.	Sandusky Quarry (25) Waterville Quarry (52) Sylvania Quarry (53) Hanson Paulding Plant (86) Flat Rock Quarry (107) Bloomville Quarry (108)	Erie Lucas Lucas Paulding Seneca Seneca	limestone limestone limestone limestone limestone limestone	375,442 238,525 841,165 227,804 1,590,544 271,087	375,442 284,910 932,077 256,548 1,408,636 306,000	Ee-11 ³ Ls-1 Ls-3 Pg-7 Sa-1 Sa-3	IM-263 IM-575 IM-580 IM-347 IM-349
Harden Agricultural Lime & Reclam. Svs., Inc. 13865 Nickel Plate Rd. Logan, OH 43138 740-385-5296 Scott R. Harden, owner	Harden Sand & Gravel (679)	Hocking	sand & gravel			Hg-HA	IM-1320
Hardin Quarry Co., Inc. 12484 State Route 701 Kenton, OH 43326 419-675-1327 Richard W. Pees, pres.	Hardin Quarry (38)	Hardin	limestone	191,833	186,150	Hdn-2	IM-443
Norman Harpster 16069 State Route 235 Belle Center, OH 43310 937-464-5623 Norman Harpster, owner	Harpster Pit (553)	Hardin	sand & gravel			Hdn-H	IM-864
Harrison Sand & Gravel Co. 10980 Campbell Rd. Harrison, OH 45030 513-367-5174 Donald Gauck, v. pres.	Harrison Sand & Gravel Co. (135)	Hamilton	sand & gravel	16,052	0	Hmn-17	IM-295
Hartley Gravel 22941 Hartley Rd. Alliance, OH 44601 330-823-0003 Jacob Maendel, pres.	Hartley Gravel (721)	Columbiana	sand & gravel	17,153	17,153	Ca-H1	IM-2033

³This mine was operated January through November 2000 by Rogers Group, Inc., and in December 2000 by Hanson Aggregates Midwest, Inc.

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Harvest Sand & Gravel, Inc. 2295 Bazetta Rd. Cortland, OH 44410 330-372-4408 Andrew T. Yount, pres.	Harvest Sand & Gravel, Inc. (720)	Columbiana	sand & gravel	80,829	80,829	Ca-H	IM-2027
Darel L. Hathaway 8553 Quaker Rd. Fredericktown, OH 43019 740-694-3923 Darel L. Hathaway, owner	Darel L. Hathaway (728)	Knox	sand & gravel			Kx-DH	IM-2078
Haubeil & Sons Asphalt & Materials, Inc. 379 Seney Rd. Chillicothe, OH 45601 740-773-6358 George Haubeil, pres.	Haubeil & Sons Asphalt & Materials, Inc. (491)	Ross	sand & gravel	111,250	111,250	Rs-H	IM-1052
Haueter Sand & Gravel, Inc. P.O. Box 206 Chardon, OH 44024 440-286-9482 Donald H. Haueter, pres.	Haueter Sand & Gravel, Inc. (108) Haueter Sand & Gravel, Inc. (545)	Geauga Geauga	sand & gravel sand & gravel	255,517	255,517	Gea-29 Gea-H	IM-215 IM-510
J. B. Hayes Excavating and Pipeline 758 West Union St. Athens, OH 45701 740-592-3478 James B. Hayes, pres.	J. B. Hayes Excavating and Pipeline (226)	Athens	clay			As-H	IM-2081
Heer Excavating, Inc. 7381 State Route 66 Archbold, OH 43502 419-445-1916 Daniel E. Heer, pres.	Mason Pit (634)	Williams	sand & gravel	42,636	42,636	Ws-22	IM-1222
Heiser Sand & Gravel Corp. 4833 Wayview St. NW North Canton, OH 44720 330-499-8201 Richard L. Heiser, pres.	Heiser Sand & Gravel Corp. (608) Heiser Sand & Gravel Corp. (609)	Stark Stark	sand & gravel sand & gravel	25,914	25,914	Sk-HS Sk-HS1	IM-1193 IM-1203
Hillsdale Sand & Gravel, Inc. P.O. Box 223 Archbold, OH 43502 419-445-1015 Dean Miller, pres.	Hillsdale Sand & Gravel, Inc. (82)	Defiance	sand & gravel			De-2	IM-765
Hilltop Aggregate, Inc. P.O. Box 362 Mogadore, OH 44260 330-628-4000 Robert W. West, pres.	Hilltop Aggregate, Inc. (262) Rufener Farm (737)	Portage Portage	sand & gravel sand & gravel	234,622	234,622	Pe-56 Pe-H	IM-127 IM-2039
Hilltop Basic Resources, Inc. One West Fourth St., Suite 1100 Cincinnati, OH 45202-3615 513-651-5000 John Steele, Jr., pres.	Fairborn Aggregate Plant (112) West Carrollton Aggregate Plant (232)	Greene Montgomery	sand & gravel sand & gravel	750,082 689,859	606,556 616,253	Ge-4 My-19	IM-394 IM-401, IM-916
Hocking Valley Concrete, Inc. 35255 Hocking Dr. Logan, OH 43138 740-385-2165 Mark Vaughn, v. pres.	Hocking Valley Concrete, Inc. (151)	Hocking	sand & gravel	124,000	126,000	Hg-262	IM-41
Hocking Valley Mulch 32091 Beech Camp Rd. Logan, OH 43138 740-385-6744 David E. Sheets, Jr., pres.	Sheets Pit (657)	Hocking	sand & gravel	3,179	3,179	Hg-HV	IM-1284

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
William A. Hoffman, Jr. 25043 State Route 104 Circleville, OH 43113 740-474-2002 William A. Hoffman, Jr., owner	Hoffman Pit (480)	Pickaway	sand & gravel	819	819	Pky-H	IM-1039
Hollinger Excavating 2097 Hollansburg-Arcanum Rd. New Madison, OH 45346 937-996-5381 Tom W. Hollinger, leasee	Hollinger Gravel (81)	Darke	sand & gravel	897	897	Dke-10	IM-326
Holmes Limestone Co. P.O. Box 295 Berlin, OH 44610 330-893-2721 Merle Mullet, pres.	241 Plant (44) (19) (19) Bolivar (76) L&M Rainsburg (151)	Holmes Stark Tuscarawas	limestone clay shale clay shale	 3,389 2,257 40,642 42,736	 3,389 2,257 40,642 42,736	Hs-67 Sk-235 Ts-H1	IM-3,IM-768 IM-945 IM-927
Honey Creek Stone Co. P.O. Box 286 Petersburg, OH 44454 724-654-5537 Carmen W. Shick, pres.	Honey Creek Stone Co. (56) (208)	Mahoning	limestone clay	273,155 15,307	228,257 15,307	Mg-54	IM-93
Hugo Sand Co. 7055 State Route 43 Kent, OH 44240 216-587-2700 Dorothy M. Strohm, pres.	Hugo Sand Co. (264)	Portage	sand & gravel	222,571	222,571	Pe-10	IM-138
Hunter Land Development 3672 CR 6-1 Delta, OH 43515 419-822-3744 Glenn Hunter, pres.	Hunter Land Development (690)	Fulton	sand & gravel			Ftn-H	IM-1336
Hydraulic Press Brick Co. 8900 Hemlock Rd. P.O. Box 31330 Independence, OH 44131 216-524-2950 Steven Rowe, pres.	Hydraulic Press Brick Co. (7)	Cuyahoga	shale	236,866	279,114	Cya-19	IM-95
George J. Igel & Co., Inc. 2040 Alum Creek Dr. Columbus, OH 43207 614-445-8421 John B. Igel, pres.	Valley Sand & Gravel, Inc. (627)	Pickaway	sand & gravel	3,320	3,320	Pky-C	IM-1223
Inland South Aggregates 51778 Darlington Rd. Negley, OH 44441 330-426-6733 David Sugar, pres.	Inland South Aggregates (539)	Columbiana	sand & gravel			Ca-351	IM-634
JBM Ltd. dba State Rte. 416 Sand & Gravel 764 State Route 416 SE New Philadelphia, OH 44663 330-339-4313 Joseph B. Marsh, pres.	State Rte. 416 Sand & Gravel (500)	Tuscarawas	sand & gravel	93,361	93,361	Ts-2018	IM-1076
JP Sand & Gravel Co. 5911 Lockbourne Rd. P.O. Box 2 Lockbourne, OH 43137 614-497-0083 Richard A. Roberts, pres.	JP Sand & Gravel Co. (98)	Franklin	sand & gravel	482,848	482,848	Fn-52	IM-191

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Jaclib Enterprises, Inc. 560 State Route 554 Cheshire, OH 45620 740-367-0602 Jason C. Leach, pres.	Cheshire Pit (726)	Gallia	sand & gravel	42,052	42,052	Ga-JE	IM-2034
James Bros., Inc. 3930 Boggs Rd. Zanesville, OH 43701 740-454-1522 Daniel G. James, owner	James Sand & Gravel (248)	Muskingum	sand & gravel			Mum-216	IM-689
Janson & Sons Corp. 11829 Spencer Park Rd. Hiram, OH 44234 330-274-8896 Gary Janson, owner	Janson & Sons Corp. (738)	Portage	sand & gravel	28,247	28,247	Pe-J	IM-2051
Janson's Soil Service, Inc. 1492 Mechanicsville Rd. Rock Creek, OH 44084 440-466-3835 Peter E. Janson, III, pres.	Janson's Soil Service, Inc. (10) (82) (82)	Ashtabula	sand & gravel clay shale			Asa-14	IM-563
Jarrett Sand Co. 6505 Skadden Rd. Sandusky, OH 44870 419-359-1750 James Jarrett, owner	Jarrett Sand Co. (84)	Erie	sand & gravel	3,960	3,960	Ee-29	
Jaymar, Inc. 8751 North State Route 7 Cheshire, OH 45620 740-992-6637 Jay Hall, Jr., pres.	Jaymar, Inc. (544) Plant #4 (560) Plant #5 (559)	Gallia Meigs Meigs	sand & gravel sand & gravel sand & gravel	634,734	634,734	Ga-J Ms-308 Ms-L	IM-1145 IM-1174 IM-1159
Jefferson Materials Co. 8505 State Route 14 Streetsboro, OH 44241 330-626-3816 Charles Rauh, pres.	Jefferson Materials Co. (265)	Portage	sand & gravel	381,469	381,469	Pe-63	IM-82
Van Johnson Construction, Inc. 2672 Eckert Rd. Lancaster, OH 43130 740-687-6043 Molly D. Johnson, pres.	Molly Johnson Mining (695) (206)	Fairfield	sand & gravel clay	14,372 2,382	39,872 8,382	Fd-VJ	IM-1339
Johnson Road Sand & Gravel 510 Johnson Rd. Kent, OH 44240 330-673-3396 Robert K. Heimann, pres.	Johnson Road Sand & Gravel (615)	Portage	sand & gravel			Pe-98	IM-1219, IM-1231
Johnson Stone Products, Inc. 14647 State Route 511 P.O. Box 39 Oberlin, OH 44074 440-774-1601 Terry A. Johnson, pres.	Kipton Quarry (75)	Lorain	sandstone			Ln-J	IM-1300
Joseph Sand & Gravel, Inc. 16272 Boundary Rd. Wapakoneta, OH 45895 419-568-3787 Kenneth D. Burden, pres.	Joseph Sand & Gravel, Inc. (23)	Auglaize	sand & gravel	12,971	12,971	Ae-23	IM-508
K.C.C.I. P.O. Box 1298 Steubenville, OH 43952 740-543-4389 David Krulock, pres.	Apex (176)	Jefferson	limestone	92,108	92,108	Jfn-K	IM-1164

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
K. M.A. Services 6741 North St. Newark, OH 43055 740-587-0565 Kim M.Ault, owner	K. M.A. Services (729)	Licking	sand & gravel			Lg-KMA	IM-2043
Keeney Sand & Stone, Inc. 13320 Girdled Rd. Painesville, OH 44077 440-254-4582 Dennis J. Keeney, pres.	Keeney Sand & Stone, Inc. (60)	Lake	sandstone	87,766	87,766	Lke-K	IM-859
Kelchner Environmental, Inc. 6834 Loop Rd. Centerville, OH 45459 937-434-1334 Todd H. Kelchner, pres.	Santefost Property (228)	Butler	clay	40,875	40,875	Br-K	IM-2041
Kellstone, Inc. P.O. Box 25527 Garfield Heights, OH 44125 216-883-7200 James A. Palladino, pres.	Kellstone, Inc. (174)	Erie	limestone	803,206	803,206	Ee-K	IM-727
Kilbarger Construction, Inc. P.O. Box 946 Logan, OH 43138 740-385-6019 Edward Kilbarger, pres.	Kilbarger Gravel Pit (523)	Hocking	sand & gravel	13,959	13,959	Hg-329	IM-1112
Kimble Clay & Limestone Co. 3596 State Route 39 NW Dover, OH 44622-9801 330-343-1226 Keith B. Kimble, pres.	Kimble Clay & Limestone Co. (117) (41) (63) (63)	Tuscarawas	limestone sandstone clay shale	57,752	57,752	Ts-1818	IM-9
King Limestone, Inc. 53681 Spencer Rd. Cumberland, OH 43732 740-638-3942 Duane King, pres.	King Limestone, Inc. (147)	Guernsey, Muskingum	limestone	278,508	278,508	Gy-309	IM-1030
King Quarries, Inc. 41499 County Rd. 7 Caldwell, OH 43724 740-732-2923 Mary King, pres.	King Quarries, Inc. (194) King Quarries, Inc. (197)	Noble Noble	limestone limestone	46,711	46,711	Ne-K Ne-K1	IM-1254 IM-1292
Kinsman Materials, LTD. P.O. Box 76 Chardon, OH 44024 440-293-5400 Bill Clemson, pres.	Kinsman Materials, LTD. (593)	Ashtabula	sand & gravel	49,565	49,565	Asa-20	IM-1198
Kipp's Gravel Co., Inc. 4987 State Route 222 Batavia, OH 45102 513-732-1024 Melvin M. Kipp, pres.	Kipp's Gravel Co., Inc. (61)	Clermont	sand & gravel	93,382	93,382	Ct-7	IM-432
Kirby's Sand & Gravel, Inc. 4876 County Hwy. 43 Upper Sandusky, OH 43351-9155 419-927-2260 Gene Kirby, owner	Kirby's Sand & Gravel, Inc. (382) Kirby's Sand & Gravel, Inc. (591)	Wyandot Wyandot	sand & gravel sand & gravel	80,591	80,591	Wt-17 Wt-K	IM-604 IM-943
Knox County Board of Commissioners 110 East High St. Mt. Vernon, OH 43050 740-397-1590 James Henry, county engineer	Apple Valley (148)	Knox	shale	981	981	Kx-K	IM-870

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Koch-Glitsch, Inc. Knight Division P.O. Box 30070 East Canton, OH 44730 330-488-1651 Ken Krummrich, pres.	Koch-Glitsch, Inc. (174)	Stark	clay			Sk-K	IM-1236
Krizman Enterprises 53100 Placid Dr. South Bend, IN 46637 219-272-8887 David J. Krizman, pres.	Krizman Enterprises (743)	Tuscarawas	sand & gravel			Ts-K	IM-2050
T & K Kuhnle Co. P.O. Box 375 Newbury, OH 44065 440-564-7168 Kim Taylor Kuhnle, pres.	Munn Rd. Sand & Gravel (518)	Geauga	sand & gravel	75,557	75,557	Gea-TK	IM-902
L & I Natural Resources, Inc. 10369 Cones Rd. Loveland, OH 45140 513-459-7716 Jerry Walker, pres.	L & I Pit & Mill (430)	Warren	sand & gravel	106,609	106,609	Wan-50	IM-1006
L & M Mineral Co. 5205 State Route 39 Millersburg, OH 44654 330-893-2227 John E. Ling, Jr., pres.	Evans, Heil (64)	Tuscarawas	shale	57,467	57,467	Ts-1884	IM-6
	Luikart (65)	Tuscarawas	clay	9,650	9,650	Ts-1914	D-0701
	(65)		shale				
	Spring (170)	Tuscarawas	limestone			Ts-1982	IM-621
	(691)		sand & gravel				
	(55)		sandstone				
Lafarge Corp. 510 W. Main St. Canfield, OH 44406 330-533-1658 Claude Bastien, pres.	(77)		clay	725	725		
	(77)		shale				
	Spring Industries (588)	Tuscarawas	sand & gravel	1,800	1,800	Ts-SI	IM-569
	Petersburg-Northern Division (212)	Mahoning	limestone	339,000	449,000	Mg-L	IM-1353
	Marblehead (84)	Ottawa	limestone	3,600,000	3,500,000	Oa-7	IM-440
	Shalersville Plant-Northern Division (277)	Portage	sand & gravel	707,223	720,238	Pe-68	IM-660, IM-1047, IM-1107, IM-1124
Lafarge Corp. Great Lakes Region P.O. Box 160 Paulding, OH 45879 419-399-4861 Philippe Rollier, pres.	Paulding Quarry (87)	Paulding	limestone	790,000	790,000	Pg-1	IM-513
	(42)		clay	144,158	144,158		
	Navarre-Northern Division (453)	Stark	sand & gravel	1,000	1,000	Sk-241	IM-582
Lake Hope Asphalt, Inc. P.O. Box 38 Nelsonville, OH 45764 740-753-1005 Francis Efaw, pres.	Lake Hope Asphalt, Inc. (21)	Athens	sand & gravel	9,107	16,128	As-1161	IM-97
Lakeside Sand & Gravel Co. 3431 Frost Rd. Mantua, OH 44255 330-274-2569 Larry Kotkowski, pres.	Campbell Pit (661)	Portage	sand & gravel	459,410	459,410	Pe-LS	IM-1293
	Lakeside Sand & Gravel Co. (268)	Portage	sand & gravel			Pe-40	IM-190
LaMar Sand & Fill, Ltd. 9090 State Route 73 Hillsboro, OH 45133 937-393-1264 Larry Miller, owner	LaMar Pit (656)	Highland	sand & gravel			Hd-L	IM-1297
Latham Limestone, Inc. P.O. Box 77 Latham, OH 45646 740-493-2677 Robert Murray, pres.	Latham Limestone, Inc. (91)	Pike	limestone	307,427	310,000	Pke-13	IM-213

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Leetonia Sand & Gravel Co., Inc. P.O. Box 236 Canfield, OH 44406 330-427-1015 Stephen Holowach, pres.	Leetonia Sand & Gravel Co., Inc. (463) (65)	Columbiana	sand & gravel sandstone			Ca-982	IM-1108
Lingvai Peat Co. 01693 CR 8 Edgerton, OH 43517 419-298-2058 Ronald Lingvai, owner	Lingvai Peat Co. (4)	Williams	peat	4		Ws-17	
Link Trucking Co., Inc. 7305 State Route 669 N McConnelsville, OH 43756 740-962-4480 Paul Kussmaul, pres.	Link Trucking Co., Inc. (647)	Morgan	sand & gravel	39,763	36,298	Mon-L	IM-1266
Little Miami Sand & Gravel P.O. Box 36 Lebanon, OH 45036 513-932-3221 Paul N. Herdman, pres.	Little Miami Sand & Gravel Plant #2 (429) Little Miami Sand & Gravel Plant #1 (391)	Warren Warren	sand & gravel sand & gravel	0 0	2,000 2,000	Wan-46 Wan-B	IM-842 IM-679
Logan Construction 3610 CR 50 Rushsylvania, OH 43347 937-468-2356 Todd Mobley, owner	Logan Construction (731)	Logan	sand & gravel	600	600	Lgn-L	IM-2064
London Tile Co. 65 Walnut St. New London, OH 44851 419-929-1551 Sylvia Danison, pres.	Biglow (1)	Ashland	shale			Ald-1	IM-334
Loxley Aggregates, Inc. 4277 Falls Rd. Lewisburg, OH 45338 937-839-5488 Matthew L. Loxley, pres.	Loxley Aggregates, Inc. (488) (101)	Preble	sand & gravel clay	2,169 1,634	2,169 1,634	Pre-9	IM-1095
Luburgh Inc. 4174 East Pike Zanesville, OH 43701 740-452-3668 Otto Luburgh, pres.	Luburgh Clay Pit (210)	Muskingum	clay	32,440	32,440	Mum-L	IM-1344
Lucky Sand & Gravel Co. 12018 Frost Rd. Mantua, OH 44255 330-562-6196 Bernard Udelson, pres.	Lucky Sand & Gravel Co. (570)	Portage	sand & gravel	67,889	67,889	Pe-L	IM-154
M & J Sand & Gravel, Inc. 114½ E. Fourth St. Williamstown, WV 26187 304-375-9939 Gale Wilson, pres.	M & J Sand & Gravel, Inc. (590) (152)	Washington	sand & gravel clay			Wn-1010	IM-1163
M & M Builders Supply Co. 5820 Carbon Hill Rd. East Palestine, OH 44413 330-426-9958 Hugh Madden, owner	M & M Builders Supply Co. (47) (106)	Columbiana	sandstone clay			Ca-970	IM-1024
Al Mackey Enterprises, Inc. P.O. Box 269 Swanton, OH 43558 419-826-7700 Al Mackey, pres.	Lynch Property (622) Eton (639) Mackey (655) Nebraska (681) 20A Pit (646)	Fulton Fulton Fulton Lucas Lucas	sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel	1,497	1,497	Ftn-M Ftn-M1 Ftn-M2 Ls-AM Ls-M	IM-1246 IM-1275 IM-1294 IM-1318 IM-1261

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
MacRitchie Materials, Inc. P.O. Box 90 West Millgrove, OH 43467 419-288-2790 Donald B. MacRitchie, pres.	MacRitchie Materials, Inc. (130)	Wood	limestone	484,523	484,523	Wd-1	IM-548
Marshall Quarry, Inc. 11199 State Route 124 Hillsboro, OH 45133 937-466-2560 Ronald L. Main, pres.	Marshall Quarry, Inc. (43)	Highland	limestone	0	300	Hd-4	IM-406
Marta Track Constructors, Inc. P.O. Box 1509 Washington, PA 15301 724-225-6155 Thomas P. Stout, pres.	Marta Track Contractors, Inc. (692) (214)	Huron	sand & gravel clay			Hrn-M	IM-1338
Martin Marietta Aggregates 4770 Duke Dr., Suite 200 Mason, OH 45040 513-701-1140 Geoff Harris, pres.	Hamilton #186 (29) Fairfield II (33) Ross S & G #457 (34) Fairfield Gravel (30) Fairborn Gravel #333 (52) Fort Jefferson #340 (19) Meredith Quarry #359 (23) Delaware #332 (22) Shawnee #324 (20) Blue Rock Limestone #342 (27) Marble Cliff #323 (30) Columbus #319 (95) Lockbourne #213 (96) Columbus Limestone #321 (31) Cedarville Limestone #341 (32) Haines Rd. #182 (405) Xenia Gravel #337 (110) Spring Valley North #593 (441) Spring Valley Gravel #346 (404) Beavercreek Limestone #426 (155) Cleves Plant #191 (126) Camp Dennison #455 (127) Harrison Sand & Gravel #188 (118) Miami town #193 (468) Lynchburg Limestone #459 (175) East Liberty #326 (49) Prospect S & G #362 (198) Apple Grove Plant (209) Troy Gravel #345 (219) Phillipsburg Limestone #339 (70) Dayton Limestone #404 (71) Rip Rap Rd. #338 (224) Franklin Gravel #189 (349)	Butler Butler Butler Butler Clark Darke Delaware Delaware Delaware Fayette Franklin Franklin Franklin Franklin Greene Greene Greene Greene Greene Hamilton Hamilton Hamilton Hamilton Highland Logan Marion Meigs Miami Montgomery Montgomery Montgomery Warren	sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel limestone limestone limestone limestone limestone limestone sand & gravel sand & gravel limestone limestone sand & gravel sand & gravel sand & gravel limestone sand & gravel sand & gravel sand & gravel sand & gravel limestone sand & gravel sand & gravel sand & gravel limestone limestone sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel limestone limestone sand & gravel sand & gravel	520,000 25,000 701,178 1,938,000 686,000 140,000 49,755 1,128,293 991,973 265,000 1,625,925 926,000 670,000 3,907,900 472,000 90,000 553,000 936,000 882,000 179,973 730,100 301,000 785,000 0 244,000	695,000 25,000 663,622 1,907,000 620,000 220,000 73,296 788,123 850,439 240,000 1,651,928 1,055,815 0 3,487,992 657,000 90,000 745,000 951,000 740,000 239,596 700,700 243,000 868,000 15,000 354,000	Br-5 Br-14 Br-29 Br-35 Ck-13 Dke-1 Del-2 Del-3 Del-4 Fe-2 Fn-2 Fn-6 Fn-23 Fn-53 Ge-17 Ge-32 Ge-33 Ge-38 Ge-42 Ge-45 Hmn-3 Hmn-5 Hmn-37 Hmn-D Hd-M Lgn-1 Mn-4 Ms-205 Mi-3 My-1 My-23 My-66 Wan-38	IM-153 IM-147 IM-149 IM-200 IM-366 IM-362 IM-299 IM-327 IM-262 IM-169 IM-261 IM-185 IM-183 IM-185 IM-435 IM-400 IM-379 IM-333 IM-954 IM-364 IM-821 IM-148 IM-170 IM-1079 IM-1170 IM-574 IM-290 IM-30 IM-462, IM-658 IM-374 IM-368 IM-677 IM-615
Martin Marietta Magnesia Specialties, Inc. 755 Lime Rd. Woodville, OH 43469 419-849-4200 Steve Raffensperger, pres.	Woodville Quarry (102)	Sandusky	limestone	2,972,768	3,185,983	Sy-1	IM-537
R.J. Martin Service & Excavating 1875 Roxanna-New Burlington Rd. Waynesville, OH 45068 937-862-4182 Roger J. Martin, pres.	Horseshoe Bend Sand & Gravel (403)	Greene	sand & gravel	502	502	Ge-40	IM-923
Mason's Sand & Gravel Co./ George C. Smith 2385 Rathmell Rd. Obetz, OH 43207 614-491-3611 George C. Smith, pres.	Mason's Sand & Gravel Co.(100)	Franklin	sand & gravel	75,468	75,468	FN-11	IM-234

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Massillon Materials, Inc. 26 N. Cochran St. P.O. Box 499 Dalton, OH 44618 330-837-4767 Howard J. Wenger, pres.	Massillon Materials, Inc. (495) MMI Warmington Plant (685) MMI Sandyville Plant (687)	Stark Stark Tuscarawas	sand & gravel sand & gravel sand & gravel	602,400 9,640 822	602,400 9,640 822	Sk-M Sk-M1 Ts-MM	IM-1031 IM-1332 IM-1324
Mathews Sand & Gravel 5061 Monroe Center Rd. Conneaut, OH 44030 440-594-1130 Edward G. Mathews, owner	Mathews Sand & Gravel (651)	Ashtabula	sand & gravel	860	860	Asa-M	IM-1301
Maxville Quarries, Inc. 7957 State Route 668 South Logan, OH 43138 740-385-2568 David J. McCort, pres.	St. Clair (222) Carpenter (89) Downhour (168)	Hocking Perry Perry	limestone limestone limestone	0 152,090 0	11,660 0 139,094	Hg-M ⁴ Py-235 ⁴ Py-343 ⁴	IM-2057 IM-515 IM-1061
McCarthy Stone Quarry 6326 County Rd. 61 Upper Sandusky, OH 43351 419-294-2611 Charles H. McCarthy, owner	McCarthy Stone Quarry (133)	Wyandot	limestone	20,000	20,000	Wt-3 ⁵	IM-298
Mecco, Inc. 2504 S. Main St. Middletown, OH 45042 513-422-3781 David T. Morgan, pres.	Mecco, Inc. (39)	Butler	sand & gravel	293,241	300,365	Br-15	IM-316
Mechanicsburg Sand & Gravel, Inc. P.O. Box 18 Mechanicsburg, OH 43044 937-834-2606 John D. Cushman, pres.	Mechanicsburg Sand & Gravel, Inc. (50)	Champaign	sand & gravel	190,853	190,853	Cpn-22	IM-889
Meigs County Commissioners Route 2 Rocksprings Rd. Pomeroy, OH 45769 740-992-2911 David H. Spencer, office mgr.	Meigs County Pit (211)	Meigs	sand & gravel			Ms-301	IM-619
The Melvin Stone Co., LLC P.O. Box 158 Sabina, OH 45169 937-584-2486 Dennis J. Garrison, pres.	Melvin Plant (17) Fayette (28) Bowersville (217) Circleville (481) Williamsport Quarry (92) Plano Road Quarry (199)	Clinton Fayette Greene Pickaway Pickaway Ross	limestone limestone limestone sand & gravel limestone limestone	2,050,000 278,000 359,000 282,000	2,090,000 295,000 366,000 368,000	Cln-1 Fe-1 Ge-M Pky-R Pky-4 Rs-MC1	IM-241 IM-831 IM-2052 IM-993 IM-209 IM-1298
Menuez Bros. Sand & Gravel, Inc. 5366 County Rd. 349 Route 1 Millersburg, OH 44654 330-674-4254 Gene Menuez, pres.	Menuez Bros. Sand & Gravel, Inc. (153)	Holmes	sand & gravel	179,454	179,454	Hs-82	IM-707
Mesenburg Bros., Inc. R.D. 1 Collins, OH 44826 419-668-5691 Peter J. Mesenburg, pres.	Mesenburg Bros., Inc. (20)	Huron	sandstone	9,107	9,107	Hrn-8	IM-268
Miami River Stone Co. 1700 Miami River Rd. Sidney, OH 45365 937-492-5412 Thomas P. Milligan, pres.	Rock Run (111) Washington Twp. Pit (312) Miami River Stone Co. (110) (311) Staley Pit (224) (577)	Shelby Shelby Shelby Shelby	limestone sand & gravel limestone sand & gravel limestone sand & gravel	367 561,139 57,476 9,590 2,755	367 542,207 26,902 0 21,004	Shy-16 Shy-13 Shy-17 Shy-SS	IM-411 IM-412 IM-389 IM-438

⁴Production only at Hg-M and Py-343; sales only at Py-235.⁵This mine was operated January through March 2000 by McCarthy Stone Quarry and April through December 2000 by Olen Corp.

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Miami View Mining Co., Ltd. 998-B East Ridge Dr. Lebanon, OH 45036 513-494-1238 David Oeder, managing mbr.	Miami View (688)	Warren	sand & gravel	859,922	859,922	Wan-MV	IM-1329
Doug Mill 1800 Mt. Vernon Rd. Newark, OH 43055 614-763-3901 Doug & Susan Mill, owners	Newark (174)	Licking	sand & gravel			Lg-2	IM-184
Miller Bros. Gravel, Inc. 7900 S. Kessler-Frederick Rd. Tipp City, OH 45371 937-836-0981 Thomas O. Miller, pres.	Miller Bros. Gravel, Inc. (233)	Montgomery	sand & gravel	298,145	276,353	My-52	IM-348
Miller Sand & Gravel, Inc. 10228 State Route 82 Windham, OH 44288 330-326-3157 Donald M. Miller, pres.	Miller Sand & Gravel, Inc. (272)	Portage	sand & gravel	2,604	2,604	Pe-39	IM-1078
Millersville Lime Inc. 3964 CR 41 Millersville, OH 43435-9786 419-638-2511 Steve Brookshaw, pres.	Millersville Plant (103) Woodville Plant (104)	Sandusky Sandusky	limestone limestone	533,319	539,401	Sy-4 Sy-3	IM-381 IM-282
Mills Rock, Sand, & Soil, Inc. 4022 State Route 303 Mantua, OH 44255 330-297-7579 Alvin Mills, pres.	Mills Rock, Sand, & Soil, Inc. (676)	Portage	sand & gravel			Pe-M	IM-1312
Mitchell Transport, Inc. 1300 E. 9th St., Suite 1100 Cleveland, OH 44114-1503 216-942-9191 Robert Amos, pres.	North Park Reclamation Clay Center (92)	Lake	clay			Lke-M	IM-1059
Moon Enterprises, Inc. 2701 South Eber Rd. Monclova, OH 43542 419-866-1317 Kenneth Mark Moon, pres.	Moon Enterprises, Inc. (683)	Lucas	sand & gravel			Ls-ME	IM-1345
Moore's Excavating Co. 2222 N. U.S. Hwy. 68 Urbana, OH 43078 937-653-6288 Dorothy Moore, pres.	Moore's Excavating Co. (51) (153) Moore's Excavating Co. (619) Moore's Excavating Co. (620)	Champaign Champaign Clark	sand & gravel clay sand & gravel sand & gravel	19,998 8,526 10,574	19,998 8,526 10,574	Cpn-20 Cpn-25 Ck-29	IM-482 IM-1227 IM-1233
Moraine Materials Co., Inc. 9661 Sugar St. Germantown, OH 45327 937-855-2228 George Kling, pres.	Moraine Materials Co., Inc. Plant 22 (41) Moraine Materials Co., Inc. Plant 21 (239) (10)	Butler Montgomery	sand & gravel sand & gravel peat	272,015 249,058	272,015 249,058	Br-6 My-41	IM-177 IM-360
Morrow Gravel Co. 11641 Mosteller Rd. Cincinnati, OH 45241 513-771-0820 James P. Jurgensen, pres.	Urbana (48) Rockford Quarry (63) Pike County (693) Morrow Gravel Co. (501)	Champaign Mercer Pike Warren	sand & gravel limestone sand & gravel sand & gravel	159,734 142,471	178,138 147,578	Cpn-1 Mr-2 Pke-M Wan-M	IM-371 IM-430 IM-1325 IM-728, IM-1065 IM-1051 IM-837
	Morrow Gravel Co. (502) Morrow Plant (503)	Warren Warren	sand & gravel sand & gravel	329,495	372,583	Wan-M1 Wan-M2	

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Morton International, Inc. Morton Salt Division 151 S. Industrial St. P.O. Box 337 Rittman, OH 44270-0337 330-925-3015 Jay Stewart, pres.	Morton Salt Well Field (5)	Wayne	salt	540,668	538,761	We-9129	
Morton International, Inc. Morton Salt Division P.O. Box 428 Grand River, OH 44045-0428 440-639-4243 Paul R. Schank, facility mgr.	Fairport Mine (2)	Lake	salt	1,280,507	1,107,387	Lke-6	
Mt. Eaton Reclamation, Inc. P.O. Box 256 Mt. Eaton, OH 44659 330-359-5364 Freeman Mullet, pres.	Mt. Eaton Reclamation, Inc. (64) (144) (144)	Wayne	sandstone clay shale	23,399 1,800	23,399 1,800	We-26	IM-690, IM-1210
Muskingum River Gravel Co. P.O. Box 1585 Zanesville, OH 43702-1585 740-453-0721 Richard A. McClelland, pres.	S & S Aggregate #8 (152) S & S Aggregate #1 (247) Plant #4 (448) S & S Agg #16 (257) S & S Aggregate Plant #7 (452) Plant #2 (367)	Hocking Muskingum Muskingum Portage Ross Washington	sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel	187,011 258,079 258,188 176,714 31,458	183,664 246,508 258,683 171,967 26,621	Hg-301 Mum-228 Mum-262 Pe-15 Rs-M Wn-38	IM-458 IM-421 IM-422 IM-104 IM-114 IM-701
National Aggregates, Inc. P.O. Box 340 Malvern, OH 44644 330-866-1999 William Scheckler, pres.	National Aggregates, Inc. (610)	Stark	sand & gravel	290,445	290,445	Sk-1017	IM-1186
National Lime & Stone Co. P.O. Box 120 Findlay, OH 45839-0120 419-422-4341 R. W. Kruse, v. pres.	Lima Plant (5) Buckland Plant (11) Wapakoneta Plant (24) Bucyrus Plant (18) Delaware Plant (21) Findlay Plant (149) National Lime & Stone Co. (218) Marion Plant (60) Carey Plant (134) Upper Sandusky Plant (380)	Allen Auglaize Auglaize Crawford Delaware Hancock Hardin Marion Wyandot Wyandot	limestone limestone sand & gravel limestone limestone limestone limestone limestone limestone sand & gravel	1,156,468 553,086 188,241 2,178,401 5,096,455 1,654,975 682,460 3,558,383 238,105	1,136,347 536,574 237,727 2,139,412 5,496,731 1,633,615 953,975 3,606,058 267,389	An-3 Ae-10 Ae-30 Cd-1 Del-5 Hk-7 Hdn-N Mn-3 Wt-1 Wt-15	IM-484 IM-486 IM-598 IM-404 IM-207 IM-1002 IM-2072 IM-168 IM-405 IM-376, IM-551
Neer's Sand & Gravel 4859 Twp. Rd. 45 Bellefontaine, OH 43311 937-585-6733 Arden J. Neer, Sr., owner	Neer's Sand & Gravel (189)	Logan	sand & gravel	167,388	176,087	Lgn-6	IM-459
Nelson Sand & Gravel, Inc. P.O. Box 466 Kingsville, OH 44048 440-224-0198 Thomas H. Nelson, pres.	Nelson Sand & Gravel, Inc. (14) Nelson Sand & Gravel, Inc. (510)	Ashtabula Ashtabula	sand & gravel sand & gravel	72,850	72,850	Asa-12 Asa-N	IM-1130 IM-1109
New Baltimore CDD Landfill, Ltd. 6950 River Rd. New Baltimore, OH 45030 513-385-9031 Thomas & Kenneth Henke, owners/partners	New Baltimore CDD Landfill, Ltd. (700) (216)	Hamilton	limestone clay			Hmn-NB	IM-1337
New Carlisle Sand & Gravel Co. 6090 S. Scarff Rd. New Carlisle, OH 45344 937-845-8434 James R. Upton, owner	New Carlisle Sand & Gravel Co. (217)	Miami	sand & gravel			Mi-501	

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Newbury Sand & Gravel 15365 Ravenna Rd. Burton, OH 44021 440-834-0200 Blaine M. Kaufman, owner	Newbury Sand & Gravel (517) (50)	Geauga	sand & gravel sandstone			Gea-N	IM-1123
Newton Asphalt Paving, Inc. P.O. Box 86 Strasburg, OH 44680 330-878-5648 George A. Gessner, pres.	516 (428)	Tuscarawas	sand & gravel	130,690	130,690	Ts-2001	IM-1004
Nick's Trucking 14228 Madison Rd. Middlefield, OH 44062 440-632-1949 Nick R. Loze, owner	Nick's Trucking (584)	Trumbull	sand & gravel	3,500	3,500	Tl-16	IM-1158
J. E. Nicolozakes Co. 62920 Georgetown Rd. Cambridge, OH 43725 740-432-5999 John E. Nicolozakes, pres.	Bank One (744)	Tuscarawas	sand & gravel			Ts-N	IM-2032
Andy Nixon Contractors, Inc. 13307 CR J35 Montpelier, OH 43543 419-737-2060 Carol J. Nixon, pres.	Nixon Pit (665) (223)	Williams	sand & gravel clay	75,185 3,938	75,185 3,938	Ws-N	IM-1291
North Shore Stone Quarries, Inc. 72 Fernhill Ave. Columbus, OH 43228 614-878-0620 Clifford Hammond, pres.	North Shore Stone Quarries, Inc. (109)	Seneca	limestone	4,895	4,895	Sa-8	IM-313
Northern Ohio Paving Co. 1749 Highland Dr. Twinsburg, OH 44087 330-425-7861 Charles G. Rauh, pres.	Allied Plant #3 (316)	Stark	sand & gravel	409,639	409,914	Sk-N	IM-156
Nuway Services, Inc. 3441 Sportsman Club Rd. Johnstown, OH 43031 740-587-2451 George M. McInturff, Sr., pres.	Hopewell (229)	Licking	clay	35,000	35,000	Lg-NU	IM-2046
Carl E. Oeder & Sons Sand & Gravel 3890 Turtlecreek Rd. Lebanon, OH 45036 513-494-1238 Carl E. Oeder, pres.	Carl E. Oeder & Sons Sand & Gravel (352)	Warren	sand & gravel	407,120	407,120	Wan-41	IM-629
Oglebay Norton Industrial Sands, Inc. P.O. Box 1000 Zanesville, OH 43702-1000 800-522-0171 Jeff Gray, pres.	Millwood Plant (24) Glass Rock Plant (48) (137)	Knox Perry	sandstone sandstone clay	183,455 236,498	183,455 236,498	Kx-1 Py-344	IM-269 IM-1014
Ohio Asphaltic Limestone Corp. 8591 Mad River Rd. Hillsboro, OH 45133 937-364-2191 W. C. Mason, pres.	Ohio Asphaltic Limestone Corp. (42) Mason (220) Ohio Asphaltic Limestone Corp. (221)	Highland Highland Highland	limestone limestone limestone	432,011	432,011	Hd-3 Hd-O Hd-O1	IM-253 IM-2056 IM-2068
Ohio Bulk Transfer Co. P.O. Box 25527 Garfield Heights, OH 44125 216-883-7200 James Palladino, pres.	Twinsburg Sand & Gravel (68)	Summit	sandstone			St-60	IM-1206

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Ohio-West Virginia Excavation 57245 Ferry Landing Rd. Dilles Bottom, OH 43947 740-676-7464 Dennis Hendershot, pres.	OH-WV Excavation (424)	Monroe	sand & gravel			Me-508	IM-1000
Olen Corp. 4755 S. High St. Columbus, OH 43207-4028 614-491-1515 Wayne Rayburn, pres.	Stewart Plant #4 (459) Hilliard Plant #1 (154) (102) Columbus Plant #3 (465) Fredericktown Plant #2 (161) St. Louisville Plant #5 (176) McCarthy Quarry (133)	Athens Franklin Franklin Knox Licking Wyandot	sand & gravel limestone sand & gravel sand & gravel sand & gravel limestone	54,000 672,000 2,632,000 428,000 436,000 288,000	54,000 672,000 2,632,000 428,000 436,000 288,000	As-W Fn-43 Fn-58 Kx-16 Lg-31 Wt-3 ⁶	IM-979 IM-188 IM-1023 IM-793 IM-246 IM-298
Oneida Sand & Gravel, Inc. P.O. Box 910 Malvern, OH 44644 330-863-0808 Rodney L. Smitley, pres.	Oneida Sand & Gravel, Inc. (47)	Carroll	sand & gravel	100,078	100,078	Cl-204	IM-554
Osborne Materials Co. P.O. Box 248 Grand River, OH 44045-0248 440-357-5562 Harold T. Larned, pres.	Osborne Materials Co. (2)	Lake Erie	sand & gravel	101,377	101,377	Lke-dredge	
Oster Sand & Gravel, Inc. 5947 Whipple Ave. NW North Canton, OH 44720-7692 330-494-5472 Marlene K. Oster, pres.	Malvern Plant (717) Massillon Plant (326) Mudbrook Plant (581) Oster Sand & Gravel, Inc.-Bolivar (586)	Carroll Stark Tuscarawas	sand & gravel sand & gravel sand & gravel sand & gravel	603,351 29,537 333,779	603,351 0 333,779	Cl-O Sk-165 Sk-R Ts-2036	IM-2082 IM-192 IM-697 IM-1155
Ours Sand & Gravel 20444 State Route 7 S Crown City, OH 45623 740-256-1378 Donald Ours, owner	Ours Sand & Gravel (466)	Gallia	sand & gravel	4,993	4,993	Ga-O	IM-1028
Oxford Mining Co., Inc. P.O. Box 427 Coshocton, OH 43812 740-622-6302 Charles C. Ungurean, pres.	ODNR (223)	Muskingum	limestone			Mum-O	IM-2030
P & H Construction 3745 S. Third St. Ironton, OH 45638 740-533-3030 Paul Popov, pres.	P & H Mine (182)	Lawrence	clay			Le-PH	IM-1268
Patrick Excavating, Inc. 5839 State Route 5 P.O. Box 38 Ravenna, OH 44266 330-296-7706 Tim Patrick, pres.	Patrick (745) (212)	Portage	sand & gravel clay	2,624 55,302	2,624 55,302	Pe-P	IM-1322
R. H. Penick Co. 1504 Blue Jay Rd. Heath, OH 43056-1767 740-323-3040 R. H. Penick, owner	R. H. Penick Co. (3)	Licking	salt	5,176	5,176	Lg-45	
Phillips Sand & Gravel P.O. Box 187 Alpha, OH 45301 937-426-5461 George E. Phillips, pres.	Phillips Sand & Gravel (115)	Greene	sand & gravel	469,930	469,930	Ge-36	IM-305

⁶This mine was operated January through March 2000 by McCarthy Stone Quarry and April through December 2000 by Olen Corp.

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Piqua Materials, Inc. Piqua Minerals Division 1750 W. Statler Rd. Piqua, OH 45356 937-773-4824 Albert Donovan, mgr.	Piqua Minerals Division (64)	Miami	limestone	667,402	744,538	Mi-1	IM-382
Pleasant Valley Limestone 12321 Ideal Rd. Byesville, OH 43723 740-685-6726 George V. Thompson, pres.	Thompson Mining/Pleasant Valley Stone (185)	Muskingum	limestone	148,786	148,786	Mum-907	IM-1200
C. F. Poeppelman, Inc. 4755 N. State Route 721 Bradford, OH 45308 937-448-2191 James C. Poeppelman, pres.	C. F. Poeppelman, Inc. (67)	Miami	limestone	420,058	420,058	Mi-10	IM-335
Powell Gravel & Topsoil, Inc. P.O. Box 214 Harrison, OH 45030 513-353-1400 Ronald Powell, pres.	Powell Gravel & Topsoil, Inc. (134) Powell Gravel & Topsoil, Inc. #2 (680)	Hamilton Hamilton	sand & gravel sand & gravel	341,764 476,827	341,764 476,827	Hmn-71 Hmn-P	IM-771 IM-1333
Power Development Corp. P.O. Box 936 Malvern, OH 44644 330-863-0603 Paul W. Robertson, pres.	Power Development/Robertson (703)	Carroll	sand & gravel	2,165	2,500	Cl-PD	IM-1352
Prairie Lane Sand & Gravel Co. 3001 Prairie Lane Rd. P.O. Box 233 Wooster, OH 44691 330-262-6821 Ralph W. Miller, pres.	Prairie Lane Sand & Gravel Co. (372) (179)	Wayne	sand & gravel shale	262,948 5,113	262,948 5,113	We-11	IM-547
Precision Aggregate, Inc. 12205 E. Gypsy Lane Rd. Bowling Green, OH 43402 419-352-4681 Randolph Schmeltz, pres.	Precision Aggregate II (183) (666) Precision Aggregate I (379)	Wood Wyandot	limestone sand & gravel sand & gravel	425,000 62,242	425,000 62,242	Wd-14 Wt-4	IM-1157 IM-520
Precision Aggregates III, LLC 100 Stone St. Fremont, OH 43240 419-352-4681 Randy Schmeltz, pres.	Precision Aggregates III, LLC (101)	Sandusky	limestone			Sy-5	IM-0259
Putnam Stone Co. R.R. 1 7053 Road M Ottawa, OH 45875-9754 419-523-6004 Tony Shroyer, pres.	Putnam Stone Co. (98)	Putnam	limestone	226,371	254,170	Pm-2	IM-570
Putnam County Board of Commissioners Putnam County Courthouse 245 E. Main St., Suite 101 Ottawa, OH 45875 419-523-3656 Stephen A. Brinkman, pres.	Putnam County Landfill Borrow Pit (221)	Putnam	clay	95,000	95,000	Pm-P	IM-2002
Quality Ready Mix, Inc. R.R. 5 Wapakoneta, OH 45895 419-738-2817 Robert E. Hirschfeld, pres.	Quality Sand & Gravel (25)	Auglaize	sand & gravel	25,144	25,144	Ae-16	IM-595

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Quality Stone Co. 8751 North State Route 7 Cheshire, OH 45620 740-992-6637 Jay Hall, Jr., pres.	Quality Stone Co. (148) Route 32 (182)	Vinton Vinton	limestone limestone	409,152	409,152	Vn-190 Vn-193	D-0761
Quarry Trails 7500 S. Cassel Rd. P.O. Box 520 Vandalia, OH 45377 937-890-1141 John E. Moyer, Sr., pres.	Quarry Trails (178)	Montgomery	limestone			My-Q	IM-860
R & S, Inc. 7522 Wales Rd. NW North Canton, OH 44720 330-499-1024 Gary A. Ross, pres.	Copley Sand & Gravel (427)	Summit	sand & gravel			St-54	IM-934
R. L., Ltd. 5850 Dry Fork Rd. Cleves, OH 45002 513-367-2177 Rick Ashcraft, v. pres.	R. L., Ltd. (137)	Hamilton	sand & gravel	461	461	Hmn-67	IM-529
Rack Sand, Inc. 5175 Este Ave. Cincinnati, OH 45232 513-242-5052 Roy Schweitzer, owner	Rack Sand, Inc. (139)	Hamilton	sand & gravel			Hmn-10	IM-226
Rainbow Sand & Gravel, Inc. P.O. Box 240 Bristolville, OH 44402 330-889-9400 Rex King, pres.	RAK, Inc., dba Rainbow Sand & Gravel, Inc. (280)	Portage	sand & gravel	141,443	141,443	Pe-64	IM-1017
John P. Raisch, Inc. P.O. Box 93 Miamisburg, OH 45342 937-866-3094 John P. Raisch, owner	John P. Raisch, Inc. (562)	Montgomery	sand & gravel			My-R	IM-539
Red Brush Peat Co. 6945 Red Brush Rd. Ravenna, OH 44266 330-297-0923 Barbara H. Linger, owner	Red Brush Peat Co. (482) (116) (9)	Portage	sand & gravel clay peat	126 439	126 439	Pe-61	IM-1064
Redskin Transport LLC 6824 Mt. Vernon Rd. Newark, OH 43055 740-745-5965 Rock Van Wey, pres.	Sleepy Hollow Pit (658)	Licking	sand & gravel	11,987	18,000	Lg-S	IM-1281
Republic Services, Inc. 3619 Gracemont St. SW East Sparta, OH 44626 330-874-3855 Tim Vandersall, site mgr.	Countywide RDF (53)	Stark	clay			Sk-217	D-0938
Richards Service Garage 2170 Wilberforce-Clifton Rd. Xenia, OH 45385 937-372-8263 Roger Richards, owner	Richards Service Garage (547)	Greene	sand & gravel			Ge-R	IM-829

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Richland Moulded Brick Co. 1000 Richland Shale Rd. P.O. Box 1711 Mansfield, OH 44901 419-524-0000 Dudley P. Frame, Jr., pres.	Richland Moulded Brick Co. (114)	Richland	shale	22,130	22,130	Rd-R	IM-1035
Ridge Township Quarry 16905 Middlepoint Rd. Van Wert, OH 45891 419-238-2533 Jenny Lautenschleger, foreman	Ridge Township Quarry (122)	Van Wert	limestone	80,294	80,294	Vt-7	IM-642
Riverside Sand & Gravel Co., Inc. P.O. Box 324 Tallmadge, OH 44278-0324 330-673-2021 Albert H. Acken, Jr., pres.	Riverside Sand & Gravel Co., Inc. (333) (49)	Summit	sand & gravel sandstone	3,274 2,206	3,274 2,206	St-24	IM-239
Gary Roberts Excavating 570 Derby Downs Rd. Newark, OH 43055 740-763-3206 Gary L. Roberts, owner	Gary Roberts Excavating (419)	Licking	sand & gravel			Lg-504	IM-991
Rockwell Sand & Gravel, Inc. 8300 State Route 14 Streetsboro, OH 44241 330-626-5577 Roger Schuck, pres.	Rockwell Sand & Gravel, Inc. (273) Ruefner (739)	Portage Portage	sand & gravel sand & gravel	246,814	246,814	Pe-85 Pe-R	IM-700 IM-2037
Rogers Group, Inc. dba Sandusky Crushed Stone 9220 Portland Rd. Castalia, OH 44824 419-483-4390 Donald R. Williamson, CEO	Rogers Group, Inc., dba Sandusky Crushed Stone (25)	Erie	limestone	4,628,159	4,628,159	Ee-117	IM-263
Roy M. Roush 11278 Darby Creek Rd. Orient, OH 43146 614-877-4792 Roy M. Roush, owner	R Farm S & G (736)	Pickaway	sand & gravel			Pky-RR	IM-2040
Rubel Quarry, Inc. 35479 State Route 78 Lewisville, OH 43754 740-567-3217 Randy Rubel, pres.	Rubel Quarry, Inc. (164)	Monroe	limestone			Me-509	IM-1094
Rumpke Mountain Mining Co. 10795 Hughes Rd. Cincinnati, OH 45251 513-851-0122 William J. Rumpke, pres.	Rumpke Mountain Mining Co. (193) (190) (190)	Hamilton	limestone clay shale	1,095,477	1,095,477	Hmn-72	IM-1264
Rumpke Waste, Inc. 9427 Beyers Rd. Georgetown, OH 45121 513-851-0122 William Rumpke, pres.	Rumpke Waste, Inc. (227) (227)	Brown	clay shale	11,010 19,275	11,010 19,275	Bn-W	IM-2076
Rupp Construction, Inc. 18228 Fulton Rd. Marshallville, OH 44645 330-855-2781 Gary Radabaugh, pres.	Rupp Construction, Inc. (373)	Wayne	sand & gravel	436,772	436,772	We-7	IM-471

⁷This mine was operated January through November 2000 by Rogers Group, Inc., and December 2000 by Hanson Aggregates Midwest, Inc.

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
S & S Aggregate, Inc. P.O. Box 1585 Zanesville, OH 43702-1585 740-453-0721 Richard A. McClelland, v. pres.	Plant #6 (101) Twin Lakes-S & S Agg. #11 (281) Twin Lakes-S & S Agg. #10 (282) S & S Agg. #14 (292) Twin Lakes-S & S Agg. #9 (336)	Franklin Portage Portage Richland Summit	sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel	12,013 14,114 465,500 84,729	12,013 14,114 487,395 76,117	Fn-24 Pe-59 Pe-67 Rd-5 St-44	IM-266 IM-210 IM-202 IM-470 IM-178
S & S Transport, Inc. 6710 County Rd. 624 Millersburg, OH 44654 330-674-0051 Phil Schlabach, president	S & S Mining (470)	Holmes	sand & gravel	193,923	193,923	Hs-J	IM-1043
Samco, Inc. 10217 State Route 534 N Middlefield, OH 44062 440-272-5158 J. Jim Holmes, pres.	Springbrook (340) (77) (184)	Trumbull	sand & gravel sandstone clay	317,422 151	317,422 151	TL-12	IM-131
Sandco, Inc. P.O. Box 351145 Toledo, OH 43635 419-875-6969 Raymond Cordray, pres.	SANDCO Sand & Topsoil (672)	Fulton	sand & gravel			Ftn-SI	IM-1308
Sandkuhl Clay Works, Inc. 05536 Kossuth-Amanda Rd. Spencerville, OH 45887 419-647-2905 Leslie E. Sandkuhl, pres.	Sandkuhl Clay Works, Inc. (2)	Auglaize	clay	7,308	7,308	Ae-7	
Sandman Trucking, Inc. 9025 Old Airport Hwy. Holland, OH 43528 419-865-1666 Robert Parker, Jr., pres.	Sandman Trucking, Inc. (678) Sandman Trucking, Inc. (708) Sandman Trucking, Inc. (733)	Fulton Lucas Lucas	sand & gravel sand & gravel sand & gravel	271,587 3,810	271,587 3,810	Ftn-SA Ls-ST Ls-ST1	IM-1335 IM-2001 IM-2060
Mark Schaffer Excavating & Trucking, Inc. 1623 Old State Rd. Norwalk, OH 44857 419-668-5990 Mark A. Schaffer, pres.	Charles Stegall (215)	Wood	limestone	33,755	33,755	Wd-S	IM-2005
Guy Schieve P.O. Box 83 Birmingham, OH 44816 440-965-8792 Guy Schieve, owner	Guy Schieve Pit (191)	Lorain	sand & gravel	7,400	7,400	Ln-12	IM-731
E. H. Schilling & Sons, Inc. 1154 TR 1117 Ironton, OH 45638 740-532-8463 Earl H. Schilling, pres.	E. H. Schilling & Sons, Inc. (305)	Scioto	sand & gravel			So-78	
Schloss Materials Co. 13700 McCracken Rd. Cleveland, OH 44125 216-587-4900 Raymond E. Schloss, Jr., pres.	Schloss Materials Co. (274) Schloss Materials Co. (569)	Portage Portage	sand & gravel sand & gravel	187,700	187,700	Pe-60 Pe-SM	IM-78 IM-499
Schrader and Son, Inc. 15317 Beaver Pike Jackson, OH 45640 740-286-0258 Jeffrey L. Schrader, pres.	Schrader & Son, Inc. (82)	Pike	sandstone	47,614	47,614	Pke-S	IM-1348

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Roy B. Schweitzer dba The Gravel Co. 325 Clark Rd. P.O. Box 15501 Cincinnati, OH 45215 513-761-4980 Roy B. Schweitzer, pres.	New Miami Pit (42) Cleves (141)	Butler Hamilton	sand & gravel sand & gravel			Br-3 Hmn-28	IM-719 IM-353
Mark E. Scott P.O. Box 6112 Chillicothe, OH 45601 740-772-4990 Mark E. Scott, owner	Scott Pit (575)	Ross	sand & gravel	30,000	30,000	Rs-P	IM-122
Seaway Sand & Stone, Inc. 2190 Whitehouse-Spencer Rd. Swanton, OH 43558 419-865-5751 Brent Gerken, pres.	Seaway Sand & Stone, Inc. (188) (195) (156) (156)	Lucas	limestone sand & gravel clay shale	243,944 69,998 21,674	243,944 69,998 21,674	LS-13	IM-492
Seville Sand & Gravel, Inc. 8215 Seville Rd. Lodi, OH 44254 330-948-1812 George D. Cross, pres.	Seville Sand & Gravel, Inc. (206)	Medina	sand & gravel	149,058	149,058	Ma-22	IM-425, IM-442, IM-650, IM-651
Betty Sewell and Rebecca Johnson 3403 U.S. Route 68 South Bellefontaine, OH 43311 740-922-3942 Mary J. Brown, pres.	Sewell and Johnson (730)	Logan	sand & gravel	32,998	32,998	Lgn-J	IM-2053
Shady Bend Sand & Gravel 550 Pleasant Valley Rd. NW P.O. Box 336 Sugarcreek, OH 44681 330-852-4862 Daniel O. Miller, owner	Shady Bend Sand & Gravel (72)	Coshocton	sand & gravel	130,717	130,717	Cn-624	IM-243
Shamrock Materials, Inc. 11641 Mosteller Rd. Cincinnati, OH 45241 513-771-0820 James P. Jurgensen, pres.	Shamrock (38)	Butler	sand & gravel	532,324	562,581	Br-52	IM-814
Sharon Stone Co. P.O. Box 100 Dexter City, OH 45727 740-732-7100 John P. McCort, pres.	Sharon Stone Co. (167) (197) Sharon Stone Co. (713)	Noble Washington	limestone clay sand & gravel	104,577	104,577	Ne-S Ne-SS	IM-913 IM-2006
Shelly Materials, Inc. 80 Park Dr. P.O. Box 266 Thornville, OH 43076 740-246-6315 Mark Shelly, pres.	Shelly Materials, Inc. Plant #3 (58) Shelly Materials, Inc. Plant #5 (71) Shelly Materials, Inc. Plant #14 (92) Shelly Materials, Inc. Plant #8 (51) Shelly Materials, Inc. Plant #12 (200) Shelly Materials, Inc. Plant #6 (212) Shelly Materials, Inc. Plant #22 (447) Shelly Materials, Inc. Plant #9 (244) Shelly Materials, Inc. Plant #21 (490) Shelly Materials, Inc. Plant #11 (119) Shelly Materials, Inc. Plant #10 (120)	Clark Coshocton Fairfield Logan Marion Meigs Miami Muskingum Ross Union Union	sand & gravel sand & gravel sand & gravel limestone sand & gravel sand & gravel sand & gravel sand & gravel limestone limestone	276,223 214,571 763,928 319,414 445,146 35,784 622,356 258,246 360,944 1,611,386	276,223 214,571 763,928 319,414 445,146 0 622,356 258,246 360,944 1,611,386	Ck-25 Cn-694 Fd-13 Lgn-2 Mn-10 Ms-298 Mi-504 Mum-799 Rs-27 Un-1 Un-2	IM-358 IM-293 IM-848, IM-1331 IM-494 IM-196 IM-32 IM-1032 IM-317, IM-264 IM-1098 IM-208 IM-236
Sidco Development, Inc. 4620 Limestone Valley Rd. Zanesville, OH 43701 740-849-2392 Jeffrey R. Sidwell, pres.	Sidco Development, Inc. (203) Midvale Sand & Gravel (214) (712)	Muskingum Tuscarawas	limestone limestone sand & gravel	660 292,766	0 375,073	Mum-SD Ts-S2	IM-1313 IM-1356

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
R. W. Sidley, Inc. 615 W. Main St. Conneaut, OH 44030 440-352-9343 Robert Buescher, pres.	Sidley-Kingsville Pit (15)	Ashtabula	sand & gravel	108,593	130,593	Asa-15	IM-783
R. W. Sidley, Inc. 7123 Madison Rd. Thompson, OH 44086 440-352-9343 Robert Buescher, pres.	Thompson Pit (18) Hambden Pit (58) Painesville Plant (166)	Geauga Geauga Lake	sandstone sandstone sand & gravel	160,380 450 4,000	160,380 450 4,000	Gea-1 Gea-S Lke-7	IM-163 IM-161 IM-162
Sidney Sand & Gravel Co. 1120 Milligan Ct., Suite 104 Sidney, OH 45365 937-492-5412 Thomas P. Milligan, pres.	Wagner Pit (493)	Shelby	sand & gravel			Shy-S	IM-1005
Sidwell Materials, Inc. 4620 Limestone Valley Rd. Zanesville, OH 43701 740-849-2392 Jeffrey R. Sidwell, pres.	Bellaire Stone (152) (56) (105) (105) Uniontown Stone (195) White Cottage (78) Dupler/Ford (186)	Belmont Belmont Muskingum Muskingum	limestone sandstone clay shale limestone limestone limestone	208,588 2,755 68,285 400,780 451,944	208,588 2,755 68,285 400,780 451,944	Bt-1190 Bt-N Mum-104 Mum-SB	IM-1089 IM-1283 IM-277 IM-1212, IM-1269
R.G. Silvestri Enterprises 2939 Hubbard Rd. Youngstown, OH 44505 330-759-1822 Ronald G. Silvestri, pres.	R.G. Silvestri Enterprises (76)	Guernsey	sandstone			Gy-S	IM-1306
Joe Simak & Sons Trucking, Inc. 3052 E. Center St. P.O. Box 599 North Kingsville, OH 44068 440-224-1992 Joseph E. Simak, pres.	North Ridge Pit (413) (166) Baird Pit (701) Amboy Pit (677) Basen Pit (715)	Ashtabula Ashtabula Ashtabula Ashtabula	sand & gravel clay sand & gravel sand & gravel sand & gravel	9,920 14,716 7,640 29,868	9,920 14,716 7,640 29,868	Asa-18 Asa-JS Asa-ST Asa-ST1	IM-949 IM-1360 IM-1349 IM-2023
Six-B, Inc. P.O. Box 127 Sabina, OH 45169 937-584-4308 Craig Beam, pres.	Island Rd. (251) Ross County Gravel Co. (530)	Pickaway Ross	sand & gravel sand & gravel			Pky-1 Rs-R	IM-428 IM-1143
Slankard Dozer Service, Inc. 8241 Ft. Laurens Rd. NW Strasburg, OH 44680 330-878-5883 Jerry L. Slankard, pres.	Beach City Pit (54)	Tuscarawas	sandstone	4,500	4,500	Ts-2032	IM-1141
Small's Sand & Gravel, Inc. P.O. Box 617 Gambier, OH 43022 740-427-3677 Michael Small, pres.	Small's Sand & Gravel, Inc. (162) Small's Sand & Gravel, Inc. (165) Small's Sand & Gravel, Inc. (408) Small's Sand & Gravel, Inc. (707)	Knox Knox Knox Knox	sand & gravel sand & gravel sand & gravel sand & gravel	81,926 200,251 100 24,688	81,926 200,251 100 24,688	Kx-5 Kx-15 Kx-17 Kx-S	IM-884, IM-1307 IM-967 IM-968 IM-2000
Sober Sand & Gravel Co. 2898 Tallmadge Rd. Ravenna, OH 44266 330-325-7088 Waldo Sober, agent	Sober Sand & Gravel Co. (275) (211)	Portage	sand & gravel clay	14,086	14,086	Pe-18	IM-193
Soehnen Bros. Sand & Gravel, Inc. 10449 Soehnen Rd. NW Beach City, OH 44608 330-756-2244 Francis L. Soehnen, pres.	Soehnen Bros. Sand & Gravel, Inc. (343)	Tuscarawas	sand & gravel	109,801	109,801	Ts-1826	IM-88

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Solid Waste Authority of Central Ohio 3142 Broadway, Suite 203 Grove City, OH 43123 614-871-5100 Rick Dodge, landfill mgr.	Solid Waste Authority of Central Ohio (218)	Franklin	clay			Fn-SW	IM-1354
Solomon's Mines, Inc. 7732 Salem-Unity Rd. Salem, OH 44460 330-337-0123 Jack Solomon, owner	Solomon's Mines, Inc. (636) (72) (194) Solomon's Mines #1 (196) (135)	Columbiana Mahoning	sand & gravel sandstone clay sand & gravel clay	101,020 19,022 886	101,020 19,022 886	Ca-S Mg-632 ^a	IM-1258 IM-808
Solon Excavators Sand & Gravel, Inc. 10925 Mantua Center Rd. P.O. Box 1081 Mantua, OH 44255 330-274-8241 Howard Sargent, pres.	May (623) Burke (276)	Geauga Portage	sand & gravel sand & gravel	38,731 171,614	38,731 171,614	Gea-43 Pe-36	IM-1230 IM-90
Soltis Sand & Gravel P.O. Box 452 Parkman, OH 44080 440-548-5813 James Soltis, owner	Soltis Sand & Gravel (415) (86)	Geauga	sand & gravel clay	5,152 296	5,152 296	Gea-9	IM-132
South Central Sand & Gravel 340 Bailey Chapel Rd. Piketon, OH 45661 740-289-2629 James Nier, owner	South Central Sand & Gravel (254)	Pike	sand & gravel	37,943	37,943	Pke-30	IM-786
Southdown Inc. 3250 Linebaugh Rd. Xenia, OH 45385 800-762-0040 Clarence Comer, pres.	Miller et al. (202) (10) Batdorf, Feirstine, Schneider (34) Harner (90) G-Tract (72)	Greene Greene Greene Montgomery	limestone clay limestone clay limestone	298,471 5,924 424,771 287,376	298,471 0 424,771 287,376	Ge-8 Ge-9 Ge-44 My-58	IM-364 IM-364 IM-330
Southern Ohio Aggregates, Inc. 11641 Mosteller Rd. Cincinnati, OH 45241 513-771-0820 James P. Jurgensen, pres.	New Miami Plant (460) E. Miami River Road (551) Kilby Road (552) Gratis Plant (284)	Butler Hamilton Hamilton Preble	sand & gravel sand & gravel sand & gravel sand & gravel	15,998 42,058	0 13,130	Br-S Hmn-S Hmn-SO Pre-7	IM-1053 IM-746 IM-720 IM-306
Speer Brothers, Inc. 3812 Old Railroad Rd. Sandusky, OH 44870 419-626-5291 David Speer, pres.	101 Location (89)	Erie	clay			Ee-32	IM-1077
Sphagnum Moss Peat Farm 9904 State Route 736 Plain City, OH 43064 937-645-5459 Mike Poling, owner	Sphagnum Moss Peat Farm (2)	Champaign	peat	2,000	2,000	Cpn-9	
Spring Creek Corp. 4723 Hardin-Wapak Rd. Sidney, OH 45365 937-492-4186 Jerry Bushelman, pres.	Pence Deposit (314) River Quarry (112) Jones Deposit (315) "H" Mine (494) Schmidt Deposit (213) (742)	Shelby Shelby Shelby Shelby Shelby	sand & gravel limestone sand & gravel sand & gravel limestone sand & gravel	336,412 393,430 70,000	336,412 393,430 70,000	Shy-11 Shy-15 Shy-18 Shy-SC Shy-SC1	IM-743 IM-387 IM-388 IM-1018 IM-2017

^aInformation for Mg-632 is reported under Ca-S.

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
City of Springfield 201 Eagle City Rd. Springfield, OH 45502 937-525-5880 Jerry Swanton, water plant supt.	City of Springfield (437)	Clark	sand & gravel			Ck-7	IM-449
Spring Industries, Inc. 56290 Dilles Bottom Rd. Shadyside, OH 43947 740-671-9400 Glenn Straub, pres.	Bolivar Pit (582) Midvale Pit (344)	Stark Tuscarawas	sand & gravel sand & gravel			Sk-SI Ts-1771	IM-588 IM-77
Spring Run Gravel P.O. Box 466 Killbuck, OH 44637 330-276-2444 Jeff Chaney, owner	Spring Run Gravel (416) (111)	Holmes	sand & gravel clay	18,102	18,102	Hs-96	IM-997
Stansley Mineral Resources 3810 Herr Rd. Sylvania, OH 43560 419-843-2813 Jeffrey Stansley, pres.	Ridge Quarry (196) Stansley Mineral Resources-Genoa Plant (85)	Hancock Ottawa	limestone limestone	200,000 777,500	200,000 777,500	Hk-A Oa-1 ⁹	IM-1299 IM-292
State Line Resources, Inc. P.O. Box 419 Negley, OH 44441 330-426-9611 James Muse, v. pres.	State Line Resources, Inc. (4) (4)	Columbiana	clay shale	112,683	112,683	Ca-505	IM-13, IM-936
Stewart & Reichman, Inc. 1866 State Route 416 SE Gnadenhutten, OH 44629 740-922-0050 Timothy G. Brown, pres.	Stewart & Reichman, Inc. (722) Stewart & Reichman, Inc. (346)	Coshocton Tuscarawas	sand & gravel sand & gravel	146,752	146,752	Cn-SR Ts-111	IM-2065 IM-55
Stocker Sand & Gravel Co. P.O. Box 176 Gnadenhutten, OH 44629 740-254-4635 Jeffrey W. Stocker, pres.	Stocker Sand & Gravel Co.-Gnaden (347) Stocker Sand & Gravel Co.-Island (348)	Tuscarawas Tuscarawas	sand & gravel sand & gravel	491,120 620,328	491,120 620,328	Ts-69 Ts-125	IM-51 IM-50
Stone Creek Brick Co. P.O. Box 116 Stone Creek, OH 43840 330-339-5511 A. C. Marsh, Jr., pres.	Stone Creek Brick Clay Mine (67) Stone Creek Brick Shale Pit (67)	Tuscarawas Tuscarawas	clay shale	38,799 6,140	38,799 6,140	Ts-1557 Ts-1558	IM-52 IM-52
Stoneco, Inc. 1345 Ford St. P.O. Box 29A Maumee, OH 43537 419-893-8731 John Bearss, pres.	Maumee Quarry (54) Celina Quarry (62) Rocky Ridge Quarry (83) Auglaize Quarry (88) Scott Quarry (121) Montpelier South Pit (375) Montpelier North Pit (376) Montpelier S.-Takacs Pit (506) Lime City Quarry (131) Portage Quarry (132)	Lucas Mercer Ottawa Paulding Van Wert Williams Williams Wood Wood	limestone limestone limestone limestone limestone sand & gravel sand & gravel sand & gravel limestone limestone	1,204,000 519,200 396,500 970,000 450,600 332,600 1,025,000 397,000	1,256,000 969,900 495,500 1,123,400 539,200 220,500 1,127,800 450,200	Ls-2 Mr-1 Oa-14 Pg-2 Vt-3 Ws-6 Ws-9 Ws-T Wd-6 Wd-11	IM-503 IM-592 IM-320 IM-481 IM-495 IM-497 IM-498 IM-1022 IM-480 IM-475
Suburban South Recycling & Disposal Facility 3415 TR 447 Glenford, OH 43739 740-922-3942 Mary J. Brown, pres.	Suburban South Recycling & Disposal Facility (81) (213) (213)	Perry	sandstone clay shale	788,702 159,486 13,818	788,702 159,486 13,818	Py-SU	IM-1340

⁹Graymont Dolime (OH) Inc. and Stansley Mineral Resources operate from same mine.

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Suever Stone Co., Inc. Bloomlock Rd. P.O. Box 10 Delphos, OH 45833 419-692-9796 Neal Lause, pres.	Suever Stone Co., Inc. (7) Suever Stone Co., Inc. (123)	Allen Van Wert	limestone limestone	119,685 181,000	110,375 176,000	An-4 Vt-1	IM-491 IM-500
Summitville Tiles, Inc. P.O. Box 173 Summitville, OH 43962 330-223-1511 D. W. Johnson, pres.	Summitville Shale (5)	Columbiana	shale	32,808	32,808	Ca-205	IM-74
Sunrise Sand & Gravel 4872 Meade Hollow Rd. Orwell, OH 44076 440-474-0614 Kenneth, Robert & Richard McElroy, partners	Sunrise Sand & Gravel (617)	Ashtabula	sand & gravel			Asa-21	IM-1239
Sunshine Sand Co. 12400 Broadway Ave. Cleveland, OH 44125 216-587-2700 Dorothy M. Strohm, pres.	Sunshine Sand Co. (528)	Portage	sand & gravel			Pe-SSC	IM-318
Swingle Drilling, Inc. 713 Keystone St. P.O. Box 220 Crooksville, OH 43731 740-982-4280 Mark Swingle, pres.	T.G. Enterprises (138)	Perry	clay			Py-S1	IM-1183
TCNC Industries, Inc. P.O. Box 101 N. Versailles, PA 15137 412-672-6480 Chester Winters & Tom Schwer, partners	TCNC Industries, Inc. (210)	Carroll	limestone			Cl-TC	IM-1319
Tackett Builders 906 Charleston Pike Chillicothe, OH 45601 740-772-5431 Carmel G. Tackett, owner	Tackett's Pit (606) (150)	Ross	sand & gravel shale	528	528	Rs-T	IM-1189
E. H. Taylor, Inc. 2603 Dorr St. Toledo, OH 43607 419-536-6020 Bobby J. Howard, pres.	E. H. Taylor, Inc. (709)	Lucas	sand & gravel			Is-T	IM-2012
Taylorville Rd. Hardfill 4252 Taylorville Rd. Huber Heights, OH 45424 937-233-7500 James T. McDonald, pres.	Taylorville Rd. Hardfill (236)	Montgomery	sand & gravel			My-55	IM-571
Teague Gravel Co., Inc. P.O. Box 380 Newbury, OH 44065 440-564-5671 Donald R. Teague, pres.	Teague Gravel Co., Inc. (109)	Geauga	sand & gravel	41,267	41,267	Gea-35	IM-321
Thiel Construction Co. P.O. Box 225 Blakeslee, OH 43505 419-272-2712 Lee R. Thiel, pres.	Thiel Construction Co. (633)	Williams	sand & gravel	4,119	4,119	Ws-21	IM-1225

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Thomas Sand & Gravel P.O. Box 171 Gratis, OH 45330 937-787-4677 Howard Thomas, owner	Thomas Sand & Gravel (741)	Preble	sand & gravel	39	39	Pre-T	IM-2036
Don Thompson Excavating, Inc. 1471 W. Paintersville Rd. Spring Valley, OH 45370 937-862-7911 Todd Thompson, pres.	Don Thompson Excavating, Inc. (546)	Greene	sand & gravel			Ge-46	IM-1149
Tipp Stone Co., Inc. P.O. Box 367 Troy, OH 45373 937-890-4051 Thomas L. Eidemiller, pres.	Tipp Stone Co., Inc. (446) Meeker (238)	Miami Montgomery	sand & gravel sand & gravel	1,395 28,315	1,395 28,315	Mi-12 My-61	IM-467 IM-468
Towne Square Products 156 E. Broadway Westerville, OH 43081 614-882-6990 Suzanne Edgar, pres.	Towne Square Products (41)	Noble	clay	416	416	Ne-66	IM-664
Tri-County Limestone Co. 4664 Hardin-Marion Rd. North Kenton, OH 43326 419-675-7127 Norman Cochran, pres.	Tri-County Limestone Co. (61)	Marion	limestone	199,059	199,059	Mn-1	IM-250
Tri-State Asphalt Products 56290 Dilles Bottom Rd. Shadyside, OH 43947 740-671-9400 Glenn Straub, pres.	Tri-State Asphalt Products (26)	Belmont	sand & gravel			Bt-74	IM-288
Trout Sand & Gravel Co. Route 4 Marietta, OH 45750 740-373-7471 Henry C. Trout, Jr., owner	Trout Sand & Gravel Co. (369)	Washington	sand & gravel	28,361	40,841	Wn-510	IM-25
Tuffco Sand & Gravel, Inc. P.O. Box 399 Marysville, OH 43040 614-873-3977 Charles Lewis, pres.	Tuffco Sand & Gravel, Inc. (474) (207)	Madison	sand & gravel clay	207,497 135	207,497 135	Mdn-11	IM-1063
Twinsburg Development Corp. P.O. Box 248 Grand River, OH 44045 440-357-5562 Harold T. Larned, pres.	Twinsburg Development Corp. (260) (204)	Portage	sand & gravel clay	216,310	234,660	Pe-84	IM-868
U.S. Aggregates 5400 W. 86th St. P.O. Box 68123 Indianapolis, IN 46268 317-872-6010 James Fehsenfeld, pres.	U.S. Aggregates/Richmond Plant (571)	Preble	sand & gravel	210,000	243,000	Pre-AAC	IM-779
U.S. Silica Co. P.O. Box 146 Dundee, OH 44624 800-243-7500 Rick Shearer, pres.	Dundee Mine (42)	Tuscarawas	sandstone	16,300	20,000	Ts-1660	IM-68
United Aggregates, Inc. P.O. Box 750 Mt. Vernon, OH 43050 740-397-0000 John D. Ellis, pres.	Sant Sand & Gravel, Inc. (163)	Knox	sand & gravel	188,985	156,380	Kx-3	IM-300

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Valley Brook Sand & Gravel, Inc. 3967 State Route 303 Mantua, OH 44255 330-297-1325 Frank Ruehr, pres.	Ruehr (740)	Portage	sand & gravel			Pe-V	IM-2061
Valley Clay Mining Co. 7052 Rosehill Rd. Roseville, OH 43777 740-697-0620 F. Klemm Ungemach, III, pres.	Spring Mine (122) Tague Mine (173)	Muskingum Perry	clay clay	7,900 7,900	7,900 7,900	Mum-904 Py-V	IM-1127 IM-1245
Valley Materials Co. 4947 U.S. Route 23 S P.O. Box 400 Piketon, OH 45661 740-289-4400 Ralph McFann, pres.	Valley Materials Co. (252) (99) Valley Materials #2 (694)	Pike Pike	sand & gravel clay sand & gravel	32,520 24,501	82,708 24,501	Pke-26 Pke-V	IM-142 IM-1330
Van Wey Sand & Gravel, Inc. 6824 Mt. Vernon Rd. NE Newark, OH 43055 740-745-5965 Rock Van Wey, pres.	Van Wey Sand & Gravel, Inc. (179)	Licking	sand & gravel	871,802	950,000	Lg-10	IM-217
Wagner Quarries Co. 4203 Milan Rd. Sandusky, OH 44870 419-625-8141 Martin A. Jones, pres.	Wagner Quarries Co. (26)	Erie	limestone	2,735,310	2,976,108	Ee-1	IM-310
Ralph C. Wagner & Sons 7317 Brinker St. Navarre, OH 44662 330-495-7414 Michael Wagner, owner	Wagner & Sons (579)	Stark	sand & gravel			Sk-W	IM-867
Wallace Road Sand & Gravel P.O. Box 74 Petersburg, OH 44454 330-542-1100 David Sugar, pres.	Wallace Road Sand & Gravel (475)	Mahoning	sand & gravel			Mg-630	IM-1091
Waller Bros. Stone Co. P.O. Box 157 McDermott, OH 45652 740-259-2356 F.L. Waller, pres.	Inskeep Quarry (36) Crabtree Quarry (37) Miller Quarry (38)	Scioto Scioto Scioto	sandstone sandstone sandstone	12,060 6,166	12,060 6,166	So-48 So-76 So-82	IM-140 IM-141 IM-158
Carl Walter 11098 Bower Rd. Minerva, OH 44657 330-894-2315 Carl Walter, owner	Walter Pit (653)	Columbiana	sand & gravel			Ca-W	IM-1279
Ward Materials, Inc. 385 Oak St. R.R. 2 Leipsic, OH 45856 419-943-2450 Arnold W. Rosebrock, pres.	Ward Materials, Inc. (2) Ward Materials, Inc. (714)	Allen Allen	sand & gravel sand & gravel	458	0	An-15 An-W	IM-721 IM-2069
Don Wartko Construction, Inc. 975 Tallmadge Rd. Kent, OH 44240 330-673-5252 Donald Wartko, pres.	Don Wartko Construction, Inc. (483)	Portage	sand & gravel			Pe-92	IM-522

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

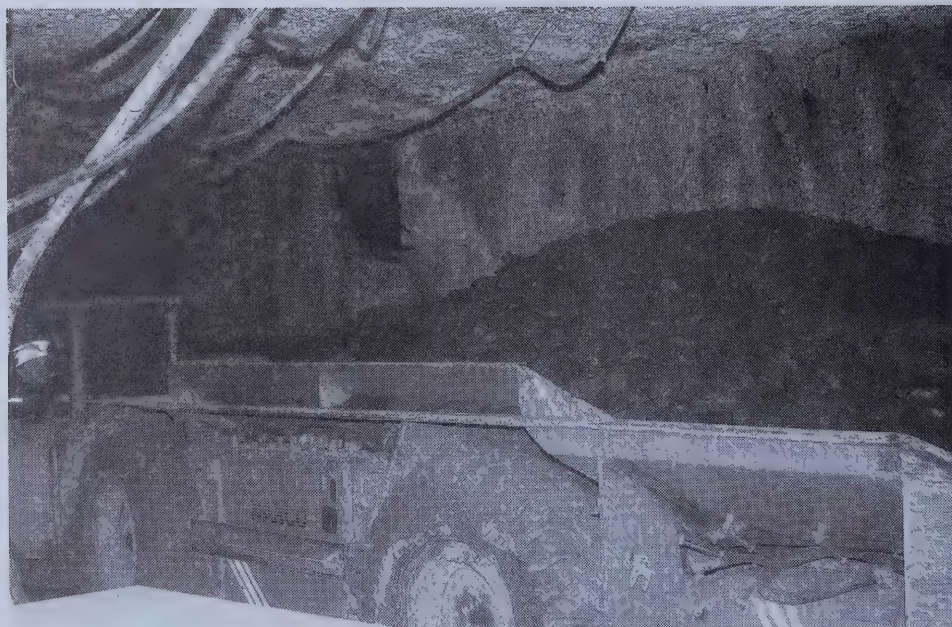
Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Waste Management/Chambers Development of Ohio, Inc. 19469 County Rd. 7 Coshocton, OH 43812 740-787-2327 W. David Gallagher, pres.	Harrison County Landfill (188)	Harrison	clay			Hn-CD	D-1105
Waterland Trucking Service, Inc. P.O. Box 930335 Wixom, MI 48393-0335 248-349-1582 Richard D. Massuch, pres.	Adams County Quarry (173)	Adams	limestone			Ads-H	IM-805
Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 740-682-7787 T. L. Darlington, Jr., v. pres.	Diamond Stone (9) (128) Waterloo Coal Stone Plant-Zoar Mill (47) (23)	Athens Jackson	limestone clay limestone clay	345,787 222,812	345,787 222,812	As-533 Jkn-367	IM-17 D-594, D-968, D-1083
Watson Gravel, Inc. 2728 Hamilton-Cleves Rd. P.O. Box 277 Ross, OH 45061 513-863-0070 Ronald E. Watson, pres.	Watson Pit (44) River Pit (667) Harrison Pit (142) Minges/Getz (130) Dry Fork (131) Campbell Rd. (407) Van Treese (640) Mason Pit (363)	Butler Butler Hamilton Hamilton Hamilton Hamilton Hamilton Warren	sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel	1,057,451 70,901 1,072,992 48,000 88,487	1,057,451 70,901 1,072,992 48,000 88,487	Br-47 Br-57 Hmn-60 Hmn-64 Hmn-68 Hmn-69 Hmn-ARH Wan-10	IM-111 IM-761 IM-137 IM-747 IM-969 IM-1273 IM-465
Weber Sand & Gravel, Inc. 14586 U.S. Route 127 EW Bryan, OH 43506 419-636-7920 Thomas G. Weber, pres.	Weber Sand & Gravel, Inc. (377)	Williams	sand & gravel	253,971	253,971	Ws-11	IM-509, IM-661
Joann O. Weddle 2419 U.S. Route 68 N Yellow Springs, OH 45387 937-374-1290 Joann Weddle, owner	Weddle Gravel (549) (219)	Greene	sand & gravel clay	167,323	167,323	Ge-W	IM-645
Weidle Sand & Gravel, Inc. P.O. Box 247 Germantown, OH 45327 937-855-2228 Ron Weidle, Sr., pres.	Weidle Sand & Gravel, Inc. (158) (158)	Montgomery	clay shale			My-W	IM-1207
Welch Sand & Gravel, Inc. 10217 Columbia St. Harrison, OH 45030-9751 513-353-3220 Charles H. Welch, pres.	Schlichter Pit (45) Fernald Pit (143) East Miami Pit (144)	Butler Hamilton Hamilton	sand & gravel sand & gravel sand & gravel	254,220 695,332 260,371	254,220 695,332 260,371	Br-38 Hmn-42 Hmn-48	IM-218 IM-823 IM-220
White Rock Quarry, L.P. Div of U.S. Aggregates P.O. Box 119 Clay Center, OH 43408-0119 419-855-8388 Jim Fehsenfeld, pres.	White Rock Quarry, L.P. (82)	Ottawa	limestone	1,189,267	1,341,425	Oa-6	IM-296
Mark Williams Blacktop Co., Inc. Route 4 Box 34 Marietta, OH 45750 740-373-2457 Mark Williams, owner	Williams Pit #2 (504) Williams Pit #1 (534)	Washington Washington	sand & gravel sand & gravel			Wn-1007 Wn-1009	IM-1042 IM-525
Willowbrook 39130 Brookfield St. P.O. Box 304 Lisbon, OH 44432 330-424-0742 Ray Perrino, owner	Willowbrook (538)	Columbiana	sand & gravel	24,670	24,670	Ca-993	IM-1180

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Gene T. Wilson P.O. Box 46 Mt. Sterling, OH 43143 740-869-4406 Eugene T. Wilson, owner	Gene T. Wilson (565)	Pickaway	sand & gravel	2,264	2,264	Pky-W	IM-1176
Dennis Winzeler 920 Center St. Bryan, OH 43506 419-636-4285 Dennis & Polly Winzeler, owners	Dennis Winzeler (378)	Williams	sand & gravel			Ws-14	IM-614
Wise Gravel 8535 W. Klinger Rd. Covington, OH 45318 937-473-3246 John A. Wise, owner	Wise Gravel (221)	Miami	sand & gravel			Mi-9	IM-408
Wyandot Dolomite, Inc. P.O. Box 99 Carey, OH 43316-0126 419-396-7641 David J. Wolfe, pres.	Wyandot Dolomite, Inc. (135)	Wyandot	limestone	1,832,138	1,988,616	Wt-8	IM-273
Wylie and Sons Landscaping 2550 County Rd. E-F P.O. Box 29 Swanton, OH 43558 419-826-1200 Thomas Wylie, owner	R. K. Walters (696) Wylie and Sons Landscaping (706) M. & K. Knapp (697) L. Diller (698)	Fulton Fulton Fulton Lucas	sand & gravel sand & gravel sand & gravel sand & gravel			Ftn-W Ftn-W1 Ftn-WY Ls-WY	IM-1328 IM-2007 IM-1334 IM-1321
Wysong Gravel Co. P.O. Box 5 West Alexandria, OH 45381 937-962-2559 John & Carroll Wysong, owners	Wysong Gravel Co. (285) Wysong Gravel Co. (286)	Preble Preble	sand & gravel sand & gravel	213,986 85,397	213,986 85,397	Pre-4 Pre-6	IM-477 IM-478
Wysong Stone Co. 5897 State Route 503 N P.O. Box 159 Lewisburg, OH 45338 937-962-2559 Carroll Wysong, v. pres.	Wysong Stone Co. (95)	Preble	limestone	110,592	110,592	Pre-5	IM-447
X L Sand & Gravel P.O. Box 255 Negley, OH 44441 330-426-9876 Robert Lansberry, pres.	X L Sand & Gravel (68) X L Sand & Gravel (705)	Columbiana Columbiana	sand & gravel sand & gravel	53,552	53,552	Ca-881 Ca-XL	IM-611 IM-1347
Xenia Sand, Gravel, & Asphalt Co. 588 Dayton-Xenia Rd. Xenia, OH 45385 937-372-2978 David A. Thompson, owner	Xenia Sand & Gravel Co. (117)	Greene	sand & gravel	250	250	Ge-10	IM-518
Young's Sand & Gravel Co. P.O. Box 117 Loudonville, OH 44842 419-994-3040 Bill Heichel, pres.	Norman Sprang (8) Ayers (412) Chuck Spreng (616)	Ashland Ashland Ashland	sand & gravel sand & gravel sand & gravel	55,431 65,212 205,421	55,431 65,212 205,421	Ald-7 Ald-15 Ald-Y	IM-392 IM-944 IM-1216
Zerger's Quarry 100 N. Sycamore St. Woodsfield, OH 43793 740-472-1675 Herman Zerger, owner	Zerger's Quarry (80)	Noble	limestone			Ne-86	IM-70

2000 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS—Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	2000 sales (tons)	2000 production (tons)	State mine number	Mining and reclamation permit number
Zoar Mining Co. P.O. Box 667 Zoar, OH 44697-0667 330-223-1511 David W. Johnson, pres.	Zoar Mine (71)	Tuscarawas	clay			Ts-540	IM-28
Zollinger Sand & Gravel Co. 11899 Easton Rd. Rittman, OH 44270 330-855-2464 Carl Zollinger, pres.	Zollinger Sand & Gravel Co. (374) (193)	Wayne	sand & gravel clay	69,941	69,941	We-15	IM-398



Buckingham Coal Co., Inc., employee Hillard Thacker operating a Joy 21SC-32 shuttle car at the company's underground coal mine in Athens County. The capacity of the shuttle car is 14 tons of coal. Photo by Michael D. Williams.



Millstone located in Adams Street Park, Port Clinton, Ohio. This millstone was originally located on the property of Colonel S. M. Lockwood on the north shore of Sandusky Bay and was used in the early process of grinding gypsum. Photo by Michael D. Williams.

2000 LIMESTONE/DOLOMITE COMPANIES WITH SALES OR PRODUCTION

Company	No. of operations	Sales (tons)	Production (tons)	Company	No. of operations	Sales (tons)	Production (tons)
Ayers Limestone Quarry, Inc.	1	100,779	100,779	Miami River Stone Co.	3	571,096	542,574
Barrett Paving Materials, Inc.	3	1,050,929	1,151,844	Millersville Lime Inc.	1	533,319	539,401
Belden Brick Co.	2	14,160	14,160	Morrow Gravel Co.	1	142,471	147,578
Blue Jay Enterprises of Ts. Co., Inc.	1	249	249	National Lime & Stone Co.	7	14,880,228	15,502,712
Bluffton Stone Co.	1	379,818	351,458	North Shore Stone Quarries, Inc.	1	4,895	4,895
Chesterhill Stone Co.	1	744,757	756,288	Ohio Asphaltic Limestone Corp.	1	432,011	432,011
Christman Quarry	1	67,430	67,430	Olen Corp.	2	960,000	960,000
Con-Ag, Inc.	1	204,529	219,699	Piqua Materials, Inc.	1	667,402	744,538
Custar Stone Co.	1	321,163	318,288	Pleasant Valley Limestone	1	148,786	148,786
Davon, Inc.	3	3,815,000	3,928,000	C. F. Poeppelman, Inc.	1	420,058	420,058
Demmy Construction, Inc.	1	17,732	17,732	Precision Aggregate, Inc.	1	425,000	425,000
C. E. Duff & Son, Inc.	2	413,128	413,128	Putnam Stone Co.	1	226,371	254,170
ENZ, Inc.	2	174,645	174,645	Quality Stone Co.	1	409,152	409,152
ESSROC Cement Corp.	2	734,817	734,817	Ridge Township Quarry	1	80,294	80,294
East Fairfield Coal Co.	1	801,240	867,401	Rogers Group, Inc.	1 ³	4,628,159	4,628,159
Erie Blacktop, Inc.	1	167,463	167,463	Mark Schaffer Excavating & Trucking, Inc.	1	33,755	33,755
Graymont Dolime (OH) Inc.	1 ¹	1,168,256	1,289,226	Seaway Sand & Stone, Inc.	1	243,944	243,944
J. M. Hamilton & Sons Co., Inc.	1	79,093	79,093	Sharon Stone Co.	1	104,577	104,577
Hanson Aggregates Midwest, Inc.	6	3,544,567	3,563,613	Shelly Materials, Inc.	3	2,291,744	2,291,744
Hardin Quarry Co., Inc.	1	191,833	186,150	Sidco Development, Inc.	1	660	0
Honey Creek Stone Co.	1	273,155	228,257	Sidwell Materials, Inc.	4	1,129,597	1,129,597
K.C.C.I.	1	92,108	92,108	Southdown Inc.	3	1,010,618	1,010,618
Kellstone, Inc.	1	803,206	803,206	Spring Creek Corp.	1	393,430	393,430
Kimble Clay & Limestone Co.	1	57,752	57,752	Stanley Mineral Resources	2	977,500	977,500
King Limestone, Inc.	1	278,508	278,508	Stoneco, Inc.	7	4,962,300	5,962,000
King Quarries, Inc.	1	46,711	46,711	Suever Stone Co., Inc.	2	300,685	286,375
Lafarge Corp.	3	4,729,000	4,739,000	Tri-County Limestone Co.	1	199,059	199,059
Latham Limestone, Inc.	1	307,427	310,000	Wagner Quarries Co.	1	2,735,310	2,976,108
MacRitchie Materials, Inc.	1	484,523	484,523	Waterloo Coal Co., Inc.	2	568,599	568,599
Marshall Quarry, Inc.	1	0	300	White Rock Quarry, L.P.	1	1,189,267	1,341,425
Martin Marietta Aggregates	11	10,427,819	9,816,374	Wyandot Dolomite, Inc.	1	1,832,138	1,988,616
Martin Marietta Magnesia Specialties, Inc.	1	2,972,768	3,185,983	Wysong Stone Co.	1	110,592	110,592
Maxville Quarries, Inc.	3	152,090	150,754	TOTAL: 67 companies	118	79,940,672	82,296,206
McCarthy Stone Quarry	1 ²	20,000	20,000				
The Melvin Stone Co., LLC	3	2,691,000	2,824,000				

¹Graymont operating in same mine as Stanley; this mine not counted in total mines.²Operated part of year by Olen and not counted in total mines.³Operated part of year by Hanson and not counted in total mines.

2000 OHIO DIRECTORY OF LIMESTONE/DOLOMITE MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

For those mines for which the Division of Mines has not assigned a state mine number, a letter designation is used (example: Cn-A).

LIMESTONE/DOLOMITE OPERATORS DIRECTORY

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County	Name of operator	Name of mine or quarry	Township	Geological unit	Type and principal use	State mine number
Adams	Davon, Inc.	Plum Run Stone	Meigs	Peebles, Greenfield & Tymochtee Dolomites (Silurian)	crushed stone—unspecified	Ads-1
Allen	Bluffton Stone Co.	Bluffton Stone Co.	Richland	Tymochtee Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building; dimension stone; aglime	An-1
	National Lime & Stone Co.	Lima Plant	Bath	Silurian	crushed stone—riprap, railroad ballast, commercial building	An-3
	Suever Stone Co., Inc.	Suever Stone Co., Inc.	Spencer	Tymochtee Dolomite (Silurian)	crushed stone—road construction/resurfacing, asphaltic concrete, commercial building; aglime	An-4
	Waterloo Coal Co., Inc.	Diamond Stone	Lee	Brush Creek limestone (Pennsylvanian)	crushed stone—unspecified	As-533
Auglaize	Con-Ag, Inc.	Con-Ag, Inc.	Noble	Cedarville Dolomite (Silurian)	crushed stone—riprap, road construction/resurfacing, asphaltic concrete	Ae-31
	National Lime & Stone Co.	Buckland Plant	Moulton	Silurian	crushed stone—riprap, railroad ballast, commercial building; aglime	Ae-10
Belmont	Ayers Limestone Quarry, Inc.	Ayers Limestone Quarry, Inc.	Pease	Permian	crushed stone—riprap, road construction/resurfacing	Bt-716
	Sidwell Materials, Inc.	Bellaire Stone	Pultney	Fishpot limestone (Pennsylvanian)	crushed stone—riprap, road construction/resurfacing	Bt-1190
Brown	Davon, Inc.	Uniontown Stone	Wheeling	Fishpot limestone (Pennsylvanian)	crushed stone—road construction/resurfacing	Bt-N
	Demmy Construction, Inc.	Eagle-Crushed Stone	Eagle	Brassfield Limestone (Silurian)	crushed stone—unspecified	Bn-EC
Clark	The Melvin Stone Co., LLC	Demmy Construction, Inc.	Mad River		crushed stone—road construction/resurfacing	Ck-501
Clinton		Melvin Plant	Richland	Cedarville Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building; dimension stone; aglime	Cln-1
Crawford	National Lime & Stone Co.	Bucyrus Plant	Holmes	Devonian	crushed stone—riprap, railroad ballast, flux, commercial building, extenders/fillers; aglime	Cd-1
Darke	Martin Marietta Aggregates	Fort Jefferson #340	Butler	Cedarville Dolomite (Silurian)	crushed stone—unspecified	Dke-1
Delaware	Martin Marietta Aggregates	Delaware #332	Scioto	Columbus Limestone (Devonian)	crushed stone—road construction/resurfacing, asphaltic concrete	Del-3
		Meredith Quarry #359	Radnor	Columbus & Delaware (Devonian)	crushed stone—road construction/resurfacing	Del-2
		Shawnee #324	Concord	Columbus & Delaware (Devonian)	crushed stone—riprap, road construction/resurfacing	Del-4
	National Lime & Stone Co.	Delaware Plant	Scioto	Columbus & Delaware (Devonian)	crushed stone—riprap, railroad ballast, commercial building; aglime	Del-5

2000 OHIO DIRECTORY OF LIMESTONE/DOLOMITE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY—Continued

County	Name of operator	Name of mine or quarry	Township	Geological unit	Type and principal use	State mine number
Erie	Erie Blacktop, Inc.	Erie Blacktop Quarry	Margaretta		crushed stone—riprap, road construction/resurfacing; aglime	Ee-27
	Hanson Aggregates Midwest, Inc.	Sandusky Quarry	Groton	Columbus & Delaware Limestones, Detroit River Group (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphaltic concrete, commercial building	Ee-11 ¹
	Kellstone, Inc.	Kellstone, Inc.	Kelleys Island	Columbus Limestone & Detroit River Group (Devonian)	crushed stone—unspecified	Ee-K
	Rogers Group, Inc.	Rogers Group, Inc., dba Sandusky Crushed Stone	Groton	Columbus & Delaware Limestones, Detroit River Group (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphaltic concrete, commercial building	Ee-11 ¹
Fayette	Wagner Quarries Co.	Wagner Quarries Co.	Perkins	Upper Columbus & Delaware Limestones (Devonian)	crushed stone—road construction/resurfacing	Ee-1
	Martin Marietta Aggregates	Blue Rock Limestone #342	Perry	Tymochtee Dolomite (Silurian)	crushed stone—unspecified	Fe-2
	Martin Marietta Aggregates	Columbus Limestone #321	Franklin, Jackson, Marion, Norwich	Columbus Limestone (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building	Fn-53
	Olen Corp.	Marble Cliff #323	Brown	Columbus Limestone (Devonian) & Salina dolomite (Silurian)	crushed stone—riprap, road construction/resurfacing, commercial building	Fn-2
Greene		Hilliard Plant #1		Salina dolomite (Silurian)	crushed stone—road construction/resurfacing, commercial building	Fn-43
	Martin Marietta Aggregates Southdown Inc.	Cedarville Limestone #341	Cedarville Bath, Beaver Creek Bath	Cedarville Dolomite (Silurian) upper Brassfield Limestone (Silurian)	crushed stone—unspecified stone for portland cement manufacture	Ge-17 Ge-9
		Miller et al.		Brassfield Limestone (Silurian)	crushed stone—road construction/resurfacing, commercial building, stone for portland cement manufacture	Ge-8
Guernsey	King Limestone, Inc.	King Limestone, Inc.	Spencer	Fishpot limestone (Pennsylvanian)	crushed stone—commercial building	Gy-309 ²
Hancock	National Lime & Stone Co.	Findlay Plant	Liberty	Salina dolomite (Silurian)	crushed stone—riprap, railroad ballast, commercial building; aglime	Hk-7
	Stansley Mineral Resources	Ridge Quarry	Biglick	Greenfield Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphaltic concrete, commercial building	Hk-A
Hardin	C. E. Duff & Son, Inc.	C. E. Duff & Son, Inc.	Jackson	Silurian	crushed stone—riprap, portland cement concrete, road construction/resurfacing, commercial building	Hdn-S
	Hardin Quarry Co., Inc.	Hardin Quarry	Pleasant	Tymochtee Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, commercial building; aglime	Hdn-2

Highland	Davon, Inc.	Highland Stone	Hamer	Brassfield & Dayton Limestones (Silurian)	crushed stone—unspecified	Hd-2
	Marshall Quarry, Inc.	Marshall Quarry, Inc.	Marshall		crushed stone—unspecified	Hd-4
	Martin Marietta Aggregates	Lynchburg Limestone #459	Union	Brassfield Limestone (Silurian)	crushed stone—unspecified	Hd-M
	Ohio Asphaltic Limestone Corp.	Ohio Asphaltic Limestone Corp.	Union		crushed stone—riprap, road construction/resurfacing, asphaltic concrete, aglime	Hd-3
Hocking	Maxville Quarries, Inc.	St. Clair	Falls Gore		crushed stone—unspecified	Hg-M ³
Jackson	Waterloo Coal Co., Inc.	Waterloo Coal Stone Plant-Zoar Mill	Madison	Vanport limestone (Pennsylvanian)	crushed stone—unspecified	Jkn-367
Jefferson	K.C.C.I.	Apex	Springfield	Pittsburgh limestone (Pennsylvanian)	crushed stone—riprap, road construction/resurfacing, railroad ballast, commercial building, unspecified	Jfn-K
Logan	C. E. Duff & Son, Inc.	C. E. Duff & Son, Inc.	Richland		crushed stone—riprap, portland cement concrete, road construction/resurfacing, commercial building	Lgn-15
	Martin Marietta Aggregates	East Liberty #326	Perry	Columbus Limestone (Devonian)	crushed stone—road construction/resurfacing, asphaltic concrete	Lgn-1
	Shelly Materials, Inc.	Shelly Materials, Inc. Plant #8	McArthur, Richland	Tymochtee Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, unspecified	Lgn-2
Lucas	Barrett Paving Materials, Inc.	Sylvania Quarry	Sylvania		crushed stone—riprap, road construction/resurfacing, asphaltic concrete	Ls-12
	Hanson Aggregates Midwest, Inc.	Sylvania Quarry	Sylvania	Detroit River Group & upper Dundee Limestone (Devonian)	crushed stone—unspecified	Ls-3
	Seaway Sand & Stone, Inc.	Waterville Quarry	Waterville	Bass Islands Group, Greenfield & Tymochtee Dolomites (Silurian)	crushed stone—unspecified	Ls-1
	Stoneco, Inc.	Seaway Sand & Stone, Inc. Maumee Quarry	Swanton Waynesfield		crushed stone—unspecified	Ls-13
					crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphaltic concrete, commercial building	Ls-2
Mahoning	ESSROC Cement Corp.	Bessemer Pit Carbon Pit	Poland Poland, Springfield	Vanport limestone (Pennsylvanian)	stone for portland cement manufacture	Mg-608
			Springfield	Vanport limestone (Pennsylvanian)	stone for portland cement manufacture	Mg-EM
	East Fairfield Coal Co.	Withers-Petersburg	Springfield	Vanport limestone (Pennsylvanian)	crushed stone—unspecified	Mg-631
	Honey Creek Stone Co.	Honey Creek Stone Co.	Springfield	Vanport limestone (Pennsylvanian)	crushed stone—road construction/resurfacing	Mg-54
	Lafarge Corp.	Petersburg-Northern Division	Springfield	Vanport limestone (Pennsylvanian)	crushed stone—road construction/resurfacing	Mg-L
Marion	J. M. Hamilton & Sons Co., Inc.	J. M. Hamilton & Sons Co., Inc.	Marion		crushed stone—portland cement concrete, asphaltic concrete	Mn-2
	National Lime & Stone Co.	Marion Plant	Grand Prairie, Marion	Columbus & Delaware Limestones (Devonian)	crushed stone—riprap, railroad ballast, commercial building, aglime	Mn-3
	Tri-County Limestone Co.	Tri-County Limestone Co.	Grand	Silurian	crushed stone—riprap, portland cement concrete, road construction/resurfacing, aglime	Mn-1

¹This mine was operated January through November 2000 by Rogers Goup, Inc., and December 2000 by Hanson Aggregates Midwest, Inc.

²See also Muskingum County.

³Production only, no sales.

2000 OHIO DIRECTORY OF LIMESTONE/DOLOMITE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY—Continued

County	Name of operator	Name of mine or quarry	Township	Geological unit	Type and principal use	State mine number
Mercer	Morrow Gravel Co.	Rockford Quarry	Dublin	Lockport Dolomite (Silurian)	crushed stone—asphaltic concrete, commercial building	Mr-2
	Stoneco, Inc.	Celina Quarry	Jefferson	Silurian	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphaltic concrete, commercial building	Mr-1
Miami	Barrett Paving Materials, Inc.	Barrett Paving Materials Inc.	Union	Brassfield Limestone (Silurian)	crushed stone—road construction/resurfacing	Mi-BPM
	Piqua Materials, Inc.	Gregory Stone, Inc. Piqua Minerals Division	Union Springcreek, Staunton	Brassfield Limestone, Dayton & Laurel Dolomites (Silurian)	crushed stone—road construction/resurfacing, flux, commercial building, extenders/fillers; aglime	Mi-502 Mi-1
Monroe	C. F. Poeppelman, Inc.	C. F. Poeppelman, Inc.	Newberry	Cedarville Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete; aglime	Mi-10
	Christman Quarry	Christman Quarry	Franklin, Seneca		crushed stone—unspecified	Mc-C
Montgomery	Martin Marietta Aggregates Southdown Inc.	Phillipsburg Limestone #339 G-Tract	Clay Wayne	Cedarville Dolomite (Silurian) upper Brassfield Limestone (Silurian)	crushed stone—unspecified stone for portland cement manufacture	My-1 My-58
Muskingum	Chesterhill Stone Co.	East Fultonham	Newton	Maxville Limestone (Mississippian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphaltic concrete, commercial building	Mum-106
	King Limestone, Inc. Pleasant Valley Limestone	King Limestone, Inc. Thompson Mining/Pleasant Valley Stone Dupler/Ford White Cottage	Rich Hill Hopewell	Fishpot limestone (Pennsylvanian) Maxville Limestone (Mississippian)	crushed stone—commercial building crushed stone—road construction/resurfacing	Gy-309 ⁴ Mum-907
Noble	Sidwell Materials, Inc.		Newton Newton	Maxville Limestone (Mississippian) Maxville Limestone (Mississippian)	crushed stone—road construction/resurfacing crushed stone—road construction/resurfacing	Mum-SB Mum-104
	King Quarries, Inc. Sharon Stone Co.	King Quarries, Inc. Sharon Stone Co.	Olive Noble, Sharon	Fishpot limestone (Pennsylvanian)	crushed stone—riprap crushed stone—riprap, road construction/resurfacing	Nc-K1 Nc-S
Ottawa	Graymont Dolime (OH) Inc.	GenLime Inc.	Clay	Lockport Dolomite (Silurian)	crushed stone—road construction/resurfacing; lime (burned stone)—chemical and industrial, refractory	Oa-1 ⁵
	Lafarge Corp.	Marblehead	Danbury	Columbus Limestone & Detroit River Group (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building	Oa-7
	Stansley Mineral Resources	Stansley Mineral Resources-Genoa Plant	Clay	Lockport Dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building; dimension stone	Oa-1 ⁵

	Stoneco, Inc.	Rocky Ridge Quarry	Benton		crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphaltic concrete, commercial building	Oa-14
	White Rock Quarry, L.P.	White Rock Quarry, L.P.	Allen	Silurian	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, extenders/fillers, unspecified; aglime	Oa-6
Paulding	Hanson Aggregates Midwest, Inc. Lafarge Corp. Stoneco, Inc.	Hanson Paulding Plant Paulding Quarry Auglaize Quarry	Crane Crane Auglaize	Tenmile Creek Dolomite (Devonian) Dundee Limestone (Devonian) Detroit River Group & Dundee Limestone (Devonian)	crushed stone—unspecified stone for portland cement manufacture crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building; aglime	Pg-7 Pg-1 Pg-2
Perry	Maxville Quarries, Inc.	Carpenter Downhour	Monday Creek Monday Creek	Maxville Limestone (Mississippian) Maxville Limestone (Mississippian)	crushed stone—road construction/resurfacing crushed stone—unspecified	Py-235 ⁶ Py-343 ⁶
Pickaway	The Melvin Stone Co., LLC	Williamsport Quarry	Perry	Columbus Limestone (Devonian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building	Pky-4
Pike	Latham Limestone, Inc.	Latham Limestone, Inc.	Mifflin	Greenfield Dolomite (Silurian)	crushed stone—riprap, road construction/resurfacing; aglime	Pke-13
Preble	Wysong Stone Co.	Wysong Stone Co.	Twin	Brassfield Limestone (Silurian)	crushed stone—riprap, road construction/resurfacing; dimension stone	Pre-5
Putnam	Putnam Stone Co.	Putnam Stone Co.	Pleasant, Riley	Silurian	crushed stone—riprap, portland cement concrete, road construction/resurfacing	Pm-2
Ross	The Melvin Stone Co., LLC	Plano Road Quarry	Concord	Salina dolomite (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, commercial building	Rs-MC1
Sandusky	Martin Marietta Magnesia Specialties, Inc. Millersville Lime Inc.	Woodville Quarry Millersville Plant	Woodville Jackson	Guelph Dolomite (Silurian) Lockport Dolomite (Silurian)	crushed stone—road construction/resurfacing; lime (burned stone)—refractory crushed stone—other; aglime; lime (burned stone)—chemical and industrial, refractory	Sy-1 Sy-4
Seneca	Hanson Aggregates Midwest, Inc.	Bloomville Quarry Flat Rock Quarry	Bloom Thompson	Columbus & Delaware Limestones (Devonian) Columbus & Delaware Limestones (Devonian)	crushed stone—unspecified crushed stone—unspecified	Sa-3 Sa-1
Shelby	North Shore Stone Quarries, Inc. Miami River Stone Co.	North Shore Stone Quarries, Inc. Miami River Stone Co.	Thompson Orange		crushed stone—riprap, dimension stone	Sa-8
		Rock Run Staley Pit	Washington Clinton, Salem		crushed stone—riprap, road construction/resurfacing crushed stone—commercial building crushed stone—riprap, commercial building	Shy-17 Shy-16 Shy-SS

⁶See also Guernsey County.⁶Graymont and Stansley operate from same mine.⁶Production only at Py-343, sales only at Py-235.

2000 OHIO DIRECTORY OF LIMESTONE/DOLOMITE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY—Continued						
County	Name of operator	Name of mine or quarry	Township	Geological unit	Type and principal use	State mine number
Shelby (cont.) Stark	Spring Creek Corp. ENZ, Inc.	River Quarry	Clinton	Putnam Hill limestone (Pennsylvanian)	crushed stone—commercial building	Shy-15
		Fox Pit	Sandy		crushed stone—road construction/resurfacing	Sk-205
		Sickafoose Pit	Pike, Sandy		crushed stone—riprap, road construction/ resurfacing	Sk-208
Tuscarawas	Belden Brick Co.	Moomaw Pit	Sugar Creek	Vanport limestone (Pennsylvanian)	crushed stone—riprap	Ts-1517
		Shanesville Pit	Sugar Creek		crushed stone—riprap	Ts-1939
	Blue Jay Enterprises of Ts. Co., Inc. Kimble Clay & Limestone Co.	Swonger Waltz Mine	Sandy	Pennsylvanian Putnam Hill & Vanport limestones (Pennsylvanian)	crushed stone—unspecified	Ts-520
		Kimble Clay & Limestone Co.	Dover		crushed stone—riprap, road construction/ resurfacing	Ts-1818
Union	Sidco Development, Inc.	Midvale Sand & Gravel	Goshen	Columbus Limestone (Devonian)	crushed stone—asphaltic concrete	Ts-52
	Shelly Materials, Inc.	Shelly Materials, Inc. Plant #10	Mill Creek		crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, unspecified concrete, commercial building, unspecified	Un-2
		Shelly Materials, Inc. Plant #11	York		crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building, unspecified	Un-1
		Ridge Township Quarry Stoneco, Inc.	Ridge Union		crushed stone—unspecified crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphaltic concrete, commercial building	Vt-7 Vt-3
Van Wert	Suever Stone Co., Inc.	Suever Stone Co., Inc.	Washington	Tymochtee Dolomite (Silurian)	crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building	Vt-1
Vinton	Quality Stone Co.	Route 32	Clinton	Lockport Dolomite & Salina Group (Silurian)	crushed stone—unspecified	Vn-193
Wood	Custar Stone Co.	Custar Stone Co.	Milton		crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete	Wd-5
	MacRitchie Materials, Inc.	MacRitchie Materials, Inc.	Perry		crushed stone—unspecified	Wd-1
	Precision Aggregate, Inc.	Precision Aggregate II	Portage		crushed stone—portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building	Wd-14
	Mark Schaffer Excavating & Trucking, Inc. Stoneco, Inc.	Charles Stegall	Troy		crushed stone—riprap	Wd-8
		Lime City Quarry	Perrysburg		crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphaltic concrete, commercial building	Wd-6

Wyandot	McCarthy Stone Quarry National Lime & Stone Co.	Portage Quarry	Portage	Greenfield & Lockport Dolomites (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, asphaltic concrete, commercial building; aglime	Wd-11
	Olen Corp.	McCarthy Stone Quarry Carey Plant	Pitt Crawford	Bass Islands Group (Silurian) Lockport Dolomite (Silurian)	crushed stone—asphaltic concrete crushed stone—riprap, railroad ballast, flux, commercial building, extenders/fillers; aglime; lime (burned stone)—chemical and industrial	Wt-37 Wt-1
	Wyandot Dolomite, Inc.	McCarthy Quarry	Pitt	Bass Islands Group (Silurian)	crushed stone—portland cement concrete, asphaltic concrete, commercial building	Wt-37
		Wyandot Dolomite, Inc.	Crawford	Greenfield & Lockport Dolomites (Silurian)	crushed stone—riprap, portland cement concrete, road construction/resurfacing, railroad ballast, asphaltic concrete, commercial building	Wt-8

⁷This mine was operated January through March 2000 by McCarthy Stone Quarry and April through December 2000 by Olen Corp.

2000 SAND AND GRAVEL COMPANIES WITH SALES OR PRODUCTION

Company	No. of operations	Sales (tons)	Production (tons)	Company	No. of operations	Sales (tons)	Production (tons)
ATS Enterprises	1	358,692	422,100	C. E. Duff & Son, Inc.	1	7,930	7,930
Agg Rok Materials	1	665,821	672,123	Eagle Material	1	224,936	250,000
William Albert, Inc.	2	20,360	21,424	David E. Edgington	1	2,848	2,848
Alden Sand & Gravel Co.	1	19,286	19,286	Enon Washed Sand & Gravel Co.	1	363,940	327,758
Allgeier & Son, Inc.	2	140,000	140,000	Erie Blacktop, Inc.	1	201	201
American Excavating, Inc.	1	21,287	21,287	Erie Materials, Inc.	1	150	150
American Sand & Gravel, Inc.	2	1,172,737	1,172,737	Erie Sand & Gravel Co.	1	671	671
Apache Aggregate & Paving Co.	1	120,849	126,478	Feikert Sand & Gravel, Inc.	2	113,832	113,832
Ashcraft Sand & Gravel, Inc.	1	79,164	79,164	Fenner Sand & Gravel, Inc.	1	104,000	104,000
Atlas Towing Co.	1	11,427	11,427	Fleming Construction Co., Inc.	2	19,303	19,303
B & L Sand Co.	1	8,518	8,518	Flesher Sand & Gravel, Inc.	1	1,643	1,643
Baker Sand, Inc.	1	648,510	648,510	Foureman's Sand & Gravel, Inc.	1	90,713	90,713
Ballentine Excavation Co.	1	28,868	28,868	Frye Sand & Gravel, Inc.	2	3,605	3,605
Barrett Paving Materials, Inc.	2	915,448	895,599	GANS Ltd.	1	15,601	5,500
Bartley & Bolin Excavating	2	266,489	266,489	Ganges Gravel Co.	1	12,891	12,891
Beaver Excavating, Inc.	1	10,000	10,000	John L. Garber Materials, Inc.	1	211,661	220,000
Beck Sand & Gravel, Inc.	1	203,460	203,460	Gibson Sand & Gravel Co.	1	632	632
Paul D. Beery Trucking Co.	1	4,062	4,062	Golsch Construction, Inc.	1	9,800	10,000
Beverly Slag Co.	1	725	725	Joyce A. Good	1	1,694	1,694
E. E. Blair Construction Co.	1	93,711	93,711	Grimes Excavating	1	179,074	179,074
Blue Stone Sand & Gravel, Inc.	1	123,334	281,061	Harrison Sand & Gravel Co.	1	16,052	0
Gaston Bowling, Inc.	1	680	680	Hartley Gravel	1	17,153	17,153
D. H. Bowman & Sons, Inc.	1	48,046	59,177	Harvest Sand & Gravel, Inc.	1	80,829	80,829
Boyd Excavating	1	9,812	9,812	Haubeil & Sons Asphalt & Materials, Inc.	1	111,250	111,250
Briggs Sand & Gravel, Inc.	1	6,182	6,182	Haueter Sand & Gravel, Inc.	1	255,517	255,517
Broshear Contractors, Inc.	1	75,351	75,351	Heer Excavating, Inc.	1	42,636	42,636
Oscar Brugmann Sand & Gravel, Inc.	1	521,783	575,000	Heiser Sand & Gravel Corp.	1	25,914	25,914
Buckeye Excavating Development, Inc.	1	18,290	18,290	Hilltop Aggregate, Inc.	1	234,622	234,622
James Bunnell, Inc.	2	1,156,013	1,156,013	Hilltop Basic Resources, Inc.	2	1,439,941	1,222,809
Burlington Sand & Gravel Co.	1	3,030	3,030	Hocking Valley Concrete, Inc.	1	124,000	126,000
C.I.R., Inc.	1	133	133	Hocking Valley Mulch	1	3,179	3,179
Joe E. Carter	1	500	500	William A. Hoffman, Jr.	1	819	819
Carter & Carter, Inc.	1	3,421	3,470	Hollinger Excavating	1	897	897
Central-Allied Enterprises, Inc.	4	1,076,069	1,076,069	Hugo Sand Co.	1	222,571	222,571
Chesterhill Stone Co.	3	404,175	434,462	George J. Igel & Co., Inc.	1	3,320	3,320
Chesterville Sand & Gravel Co., Inc.	1	167,354	167,354	JBM Ltd.	1	93,361	93,361
Clemson Excavating, Inc.	1	53,169	53,169	JP Sand & Gravel Co.	1	482,848	482,848
M. J. Coates Construction Co., Inc.	2	146,345	146,345	Jaclob Enterprises, Inc.	1	42,052	42,052
Cochran Transportation Services, Inc.	1	19,913	19,913	Janson & Sons Corp.	1	28,247	28,247
Bill D. Colwell	1	47,000	47,000	Jarrett Sand Co.	1	3,960	3,960
Complete Resources Co.	1	111,087	118,641	Jaymar, Inc.	1	634,734	634,734
Donald A. Coy	1	9,950	9,950	Jefferson Materials Co.	1	381,469	381,469
Craigton Shale Co.	1	112,819	112,819	Van Johnson Construction, Inc.	1	14,372	39,872
Crosby Gravel	1	102,893	102,893	Joseph Sand & Gravel, Inc.	1	12,971	12,971
R.A. Cruise Sand & Gravel, Inc.	1	16,641	91,783	Kilbarger Construction, Inc.	1	13,959	13,959
D & K Materials, Inc.	1	33,000	33,000	Kinsman Materials, LTD.	1	49,565	49,565
D.B.M. Materials, LLC	1	125,201	134,823	Kipp's Gravel Co., Inc.	1	93,382	93,382
D.G.M., Inc.	1	23,129	23,129	Kirby's Sand & Gravel, Inc.	1	80,591	80,591
Darby Creek Excavating, Inc.	1	34,500	34,500	T & K Kuhnle Co.	1	75,557	75,557
Davon, Inc.	2	735,000	768,000	L & I Natural Resources, Inc.	1	106,609	106,609
Demmy Construction, Inc.	1	24,314	24,314	L & M Mineral Co.	1	1,800	1,800
Demmy Sand & Gravel	1	8,704	8,704	Lafarge Corp.	2	708,223	721,238
Dingledine Basic Materials, Inc.	1	54,000	83,000	Lake Hope Asphalt, Inc.	1	9,107	16,128
Don's Dozer Service, Inc.	1	400	700	Lakeside Sand & Gravel Co.	1	459,410	459,410
James E. Downard	1	1,846	1,846	Link Trucking Co., Inc.	1	39,763	36,298

2000 SAND AND GRAVEL COMPANIES WITH SALES OR PRODUCTION—Continued

Company	No. of operations	Sales (tons)	Production (tons)	Company	No. of operations	Sales (tons)	Production (tons)
Little Miami Sand & Gravel	2	0	4,000	Schloss Materials Co.	1	187,700	187,700
Logan Construction	1	600	600	Mark E. Scott	1	30,000	30,000
Loxley Aggregates, Inc.	1	2,169	2,169	Seaway Sand & Stone, Inc.	1	69,998	69,998
Lucky Sand & Gravel Co.	1	67,889	67,889	Seville Sand & Gravel, Inc.	1	149,058	149,058
Al Mackey Enterprises, Inc.	1	1,497	1,497	Betty Sewell and Rebecca Johnson	1	32,998	32,998
Martin Marietta Aggregates	17	9,454,278	9,108,137	Shady Bend Sand & Gravel	1	130,717	130,717
R.J. Martin Service & Excavating	1	502	502	Shamrock Materials, Inc.	1	532,324	562,581
Mason's Sand & Gravel Co./ George C. Smith	1	75,468	75,468	Shelly Materials, Inc.	7	2,616,254	2,580,470
Massillon Materials, Inc.	3	612,862	612,862	Sidco Development, Inc.	1	292,766	375,073
Mathews Sand & Gravel	1	860	860	R. W. Sidley, Inc.	2	112,593	134,593
Mecco, Inc.	1	293,241	300,365	Joe Simak & Sons Trucking, Inc.	3	47,428	47,428
Mechanicsburg Sand & Gravel, Inc.	1	190,853	190,853	Small's Sand & Gravel, Inc.	4	306,965	306,965
The Melvin Stone Co., LLC	1	278,000	295,000	Sober Sand & Gravel Co.	1	14,086	14,086
Menuz Bros. Sand & Gravel, Inc.	1	179,454	179,454	Soehnlen Bros. Sand & Gravel, Inc.	1	109,801	109,801
Miami River Stone Co.	2	60,231	47,906	Solomon's Mines, Inc.	2	101,020	101,020
Miami View Mining Co., Ltd.	1	859,922	859,922	Solon Excavators Sand & Gravel, Inc.	2	210,345	210,345
Miller Bros. Gravel, Inc.	1	298,145	276,353	Soltis Sand & Gravel	1	5,152	5,152
Miller Sand & Gravel, Inc.	1	2,604	2,604	South Central Sand & Gravel	1	37,943	37,943
Moore's Excavating Co.	3	39,098	39,098	Southern Ohio Aggregates, Inc.	2	58,056	13,130
Moraine Materials Co., Inc.	2	521,073	521,073	Spring Creek Corp.	2	406,412	406,412
Morrow Gravel Co.	2	489,229	550,721	Spring Run Gravel	1	18,102	18,102
Muskingum River Gravel Co.	5	911,450	887,443	Stewart & Reichman, Inc.	1	146,752	146,752
National Aggregates, Inc.	1	290,445	290,445	Stocker Sand & Gravel Co.	2	1,111,448	1,111,448
National Lime & Stone Co.	2	426,346	505,116	Stoneco, Inc.	1	332,600	220,500
Neer's Sand & Gravel	1	167,388	176,087	Tackett Builders	1	528	528
Nelson Sand & Gravel, Inc.	1	72,850	72,850	Teague Gravel Co., Inc.	1	41,267	41,267
Newton Asphalt Paving, Inc.	1	130,690	130,690	Thiel Construction Co.	1	4,119	4,119
Nick's Trucking	1	3,500	3,500	Thomas Sand & Gravel	1	39	39
Andy Nixon Contractors, Inc.	1	75,185	75,185	Tipp Stone Co., Inc.	2	29,710	29,710
Northern Ohio Paving Co.	1	409,639	409,914	Trout Sand & Gravel Co.	1	28,361	40,841
Carl E. Oeder & Sons Sand & Gravel	1	407,120	407,120	Tuffco Sand & Gravel, Inc.	1	207,497	207,497
Olen Corp.	4	3,550,000	3,550,000	Twinsburg Development Corp.	1	216,310	234,660
Oneida Sand & Gravel, Inc.	1	100,078	100,078	U.S. Aggregates	1	210,000	243,000
Osborne Materials Co.	1	101,377	101,377	United Aggregates, Inc.	1	188,985	156,380
Oster Sand & Gravel, Inc.	3	966,667	937,130	Valley Materials Co.	2	57,021	107,209
Ours Sand & Gravel	1	4,993	4,993	Van Wey Sand & Gravel, Inc.	1	871,802	950,000
Patrick Excavating, Inc.	1	2,624	2,624	Ward Materials, Inc.	1	458	0
Phillips Sand & Gravel	1	469,930	469,930	Watson Gravel, Inc.	5	2,337,831	2,337,831
Powell Gravel & Topsoil, Inc.	2	818,591	818,591	Weber Sand & Gravel, Inc.	1	253,971	253,971
Power Development Corp.	1	2,165	2,500	Welch Sand & Gravel, Inc.	3	1,209,923	1,209,923
Prairie Lane Sand & Gravel Co.	1	262,948	262,948	Willowbrook	1	24,670	24,670
Precision Aggregate, Inc.	1	62,242	62,242	Gene T. Wilson	1	2,264	2,264
Quality Ready Mix, Inc.	1	25,144	25,144	Wysong Gravel Co.	2	299,383	299,383
R. L., Ltd.	1	461	461	X L Sand & Gravel	1	53,552	53,552
Rainbow Sand & Gravel, Inc.	1	141,443	141,443	Xenia Sand, Gravel, & Asphalt Co.	1	250	250
Red Brush Peat Co.	1	126	126	Young's Sand & Gravel Co.	3	326,064	326,064
Redskin Transport LLC	1	11,987	18,000	Zollinger Sand & Gravel Co.	1	69,941	69,941
Riverside Sand & Gravel Co., Inc.	1	3,274	3,274				
Rockwell Sand & Gravel, Inc.	1	246,814	246,814	TOTAL: 212 companies	297	55,734,489	55,860,375
Rupp Construction, Inc.	1	436,772	436,772				
S & S Aggregate, Inc.	4	576,356	589,639				
S & S Transport, Inc.	1	193,923	193,923				
Samco, Inc.	1	317,422	317,422				
Sandman Trucking, Inc.	2	275,397	275,397				
Guy Schieve	1	7,400	7,400				

2000 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

For those mines for which the Division of Mines has not assigned a state mine number, a letter designation is used (example: Ald-G).

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Allen	Ward Materials, Inc.	Ward Materials, Inc.	Monroe	sand—filtration	An-15
Ashland	Bartley & Bolin Excavating	Bartley & Bolin, Inc. Plant #2	Mohican	sand—building	Ald-9
	Joyce A. Good	Joyce A. Good	Jackson	gravel—building, bank run, fill	Ald-G
	Young's Sand & Gravel Co.	Norman Sprang	Green	sand—base	Ald-7
		Ayers	Green	gravel—base	Ald-15
		Chuck Spreng	Green	sand—building, road construction/resurfacing, unspecified	Ald-Y
Ashtabula	Clemson Excavating, Inc.	Clemson	Hartsgrove	gravel—building, road construction/resurfacing, unspecified	Asa-C
	Frye Sand & Gravel, Inc.	Frye Sand & Gravel, Inc.	Denmark	gravel—road construction/resurfacing	Asa-10
	Kinsman Materials, LTD	Frye Sand & Gravel, Inc.	Monroe	gravel—bank run	Asa-F
	Mathews Sand & Gravel	Kinsman Materials, LTD	Wayne	gravel—bank run	Asa-20
	Nelson Sand & Gravel, Inc.	Mathews Sand & Gravel	North Kingsville	sand—building	Asa-M
	R. W. Sidley, Inc.	Nelson Sand & Gravel, Inc.	Kingsville	sand—building	Asa-12
	Joe Simak & Sons Trucking, Inc.	Sidley-Kingsville Pit	Kingsville	gravel—building	Asa-15
		Amboy Pit	Kingsville	sand—building, portland cement concrete	Asa-ST
		Basen Pit	Kingsville	gravel—building	Asa-ST1
		North Ridge Pit	Kingsville	sand—building, fill	Asa-18
Athens	Cochran Transportation Services, Inc.	Circle Hill Sand & Gravel, Inc.	Dover	gravel—building, filtration	As-595
	Lake Hope Asphalt, Inc.	Lake Hope Asphalt, Inc.	York	sand—building	As-1161
	Olen Corp.	Stewart Plant #4	Rome	sand—asphaltic concrete, unspecified	As-W
				sand—portland cement concrete, road construction/resurfacing	
Auglaize	Joseph Sand & Gravel, Inc.	Joseph Sand & Gravel, Inc.	Union	gravel—building, road construction/ resurfacing	Ae-23
	National Lime & Stone Co.	Wapakoneta Plant	Union	sand—fill	Ae-30
	Quality Ready Mix, Inc.	Quality Sand & Gravel	Pusheta	gravel—filtration, fill	Ae-16
				sand—building, portland cement concrete	

Butler	Gaston Bowling, Inc. Broshear Contractors, Inc.	Indian Creek Sand & Gravel Green Heron	Ross Ross	gravel—road construction/resurfacing, pipe fill, bank run sand—pipe bedding gravel—pipe bedding gravel—road construction/resurfacing sand—fill	Br-40 Br-B
	Bill D. Colwell Dingledine Basic Materials, Inc.	Bill D. Colwell Dingledine Basic Materials, Inc.	St. Clair Milford	gravel—unspecified sand—unspecified gravel—unspecified sand—unspecified gravel—unspecified sand—unspecified	Br-36 Br-50
	Martin Marietta Aggregates	Fairfield Gravel Fairfield II Hamilton #186 Ross S & G #457 Mecco, Inc.	Fairfield, Ross Fairfield St. Clair Fairfield, Ross	gravel—unspecified sand—unspecified gravel—unspecified sand—unspecified gravel—unspecified sand—unspecified	Br-35 Br-14 Br-5
	Mecco, Inc.	Moraine Materials Co., Inc.	Lemon	gravel—unspecified sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Br-29
	Moraine Materials Co., Inc.	Moraine Materials Co., Inc. Plant 22	Madison	gravel—unspecified sand—building, portland cement concrete	Br-15
	Shamrock Materials, Inc.	Shamrock	Madison	gravel—unspecified sand—building, portland cement concrete, unspecified	Br-6 Br-52
	Southern Ohio Aggregates, Inc.	New Miami Plant	St. Clair	gravel—building sand—building	Br-S
	Watson Gravel, Inc.	River Pit	Fairfield	gravel—building, asphaltic concrete, road construction/resurfacing	Br-57
	Welch Sand & Gravel, Inc.	Watson Pit	Fairfield	sand—building, portland cement concrete, asphaltic concrete, fill gravel—building, portland cement concrete, road construction/resurfacing	Br-47
	Oneida Sand & Gravel, Inc. Power Development Corp.	Oneida Sand & Gravel, Inc. Power Development/Robertson	Brown Brown	sand—building gravel—building	Br-38
Carroll	Mechanicsburg Sand & Gravel, Inc.	Mechanicsburg Sand & Gravel, Inc.	Union	sand—road construction/resurfacing gravel—road construction/resurfacing sand—road construction/resurfacing gravel—road construction/resurfacing	Cl-204 Cl-PD
	Moore's Excavating Co.	Moore's Excavating Co.	Salem	sand—unspecified gravel—unspecified	Cpn-22
	Morrow Gravel Co.	Moore's Excavating Co. Urbana	Salem, Wayne Urbana	sand—building gravel—building sand—building, portland cement concrete gravel—building, portland cement concrete	Cpn-20 Cpn-25 Cpn-1
	American Excavating, Inc. Barrett Paving Materials, Inc.	American Excavating, Inc. Barrett Paving Materials, Inc.	Bethel Mad River	gravel—road construction/resurfacing, pipe bedding sand—unspecified gravel—unspecified sand—pipe fill gravel—filtration	Cl-A Cl-28 Cl-501
Champaign	Mechanicsburg Sand & Gravel, Inc.	Mechanicsburg Sand & Gravel, Inc.	Union	sand—unspecified gravel—unspecified	Cpn-22
	Moore's Excavating Co.	Moore's Excavating Co.	Salem	sand—building gravel—building sand—building gravel—building	Cpn-20 Cpn-25 Cpn-1
Clark	American Excavating, Inc. Barrett Paving Materials, Inc.	American Excavating, Inc. Barrett Paving Materials, Inc.	Bethel Mad River	gravel—road construction/resurfacing, pipe bedding sand—unspecified gravel—unspecified sand—pipe fill gravel—filtration	Cl-A Cl-28 Cl-501
	Demmy Construction, Inc.	Demmy Construction, Inc.	Mad River	gravel—road construction/resurfacing, pipe bedding sand—unspecified gravel—unspecified sand—pipe fill gravel—filtration	Cl-A Cl-28 Cl-501

2000 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY—Continued

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Clark (cont.)	Demmy Sand & Gravel Enon Washed Sand & Gravel Co.	Demmy Sand & Gravel Enon Washed Sand & Gravel Co.	Mad River	sand—building	Ck-502
	Martin Marietta Aggregates	Fairborn Gravel #333	Bethel, Mad River	sand—portland cement concrete, asphaltic concrete, fill gravel—portland cement concrete, asphaltic concrete, base, fill	Ck-3
	Moore's Excavating Co.	Moore's Excavating Co.	Bethel	sand—unspecified gravel—unspecified	Ck-13
	Shelly Materials, Inc.	Shelly Materials, Inc. Plant #3	Moorefield	sand—building gravel—building	Ck-29
			Springfield	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Ck-25
Clermont	Barrett Paving Materials, Inc.	Barrett Paving Materials-Perintown	Union	sand—building, portland cement concrete, asphaltic concrete	Ct-9
	Kipp's Gravel Co., Inc.	Kipp's Gravel Co., Inc.	Stonelick	gravel—portland cement concrete, asphaltic concrete gravel—unspecified	Ct-7
				gravel—building sand—building, asphaltic concrete	Ca-H1 Ca-H
Columbiana	Hartley Gravel Harvest Sand & Gravel, Inc.	Hartley Gravel Harvest Sand & Gravel, Inc.	Knox Salem	gravel—building gravel—building	Ca-H1 Ca-H
	Solomon's Mines, Inc.	Solomon's Mines, Inc.	Salem	sand—building, road construction/resurfacing, fill	Ca-S ¹
	Willowbrook	Willowbrook	Elk Run	gravel—building, road construction/resurfacing, filtration sand—unspecified	Ca-993
	X L Sand & Gravel	X L Sand & Gravel	Middleton	gravel—unspecified sand—building	Ca-881
				gravel—building	
Coshocton	William Albert, Inc.	William Albert Plant 1	Franklin	sand—building, road construction/resurfacing, foundry	Cn-828
		William Albert Plant 2	Lafayette	gravel—building, road construction/resurfacing, filtration sand—building, road construction/resurfacing, fill, foundry	Cn-WA
	Apache Aggregate & Paving Co.	Apache Aggregate & Paving Co.	Jackson	gravel—building, road construction/resurfacing, filtration sand—portland cement concrete, asphaltic concrete	Cn-718
	Shady Bend Sand & Gravel	Shady Bend Sand and Gravel	Oxford	gravel—portland cement concrete, asphaltic concrete, road construction/resurfacing	Cn-624
	Shelly Materials, Inc.	Shelly Materials, Inc. Plant #5	Bethlehem	sand—road construction/resurfacing gravel—road construction/resurfacing	Cn-694
Crawford	Stewart & Reichman, Inc.	Stewart & Reichman, Inc.	Oxford	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified	Cn-SR
				gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	
				sand—road construction/resurfacing gravel—road construction/resurfacing	
	Gibson Sand & Gravel Co.	Gibson Sand & Gravel Co.	Jefferson	sand—building	Cd-G
	Fourman's Sand & Gravel, Inc.	Fourman's Sand & Gravel, Inc.	Greenville	sand—portland cement concrete, mason gravel—building	Dke-4
Darke	Hollinger Excavating	Hollinger Gravel	Harrison	gravel—farm ballast	Dke-10

Erie	Erie Materials, Inc. Jarrett Sand Co.	Borchardt Jarrett Sand Co.	Groton, Margaretta Groton	gravel—building sand—unspecified	Fe-18 Fe-29
Fairfield	Paul D. Beery Trucking Co. James E. Downard Van Johnson Construction, Inc. Shelly Materials, Inc.	Paul D. Beery Trucking Co. Downard Pit Molly Johnson Mining Shelly Materials, Inc. Plant #14	Berne Rush Creek Berne Berne	sand—unspecified gravel—unspecified sand—backfill sand—building gravel—building sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Fd-14 Fd-16 Fd-VJ Fd-13
Franklin	Agg Rok Materials D.B.M. Materials, LLC JP Sand & Gravel Co. Martin Marietta Aggregates	Agg Rok D.B.M. Materials, LLC JP Sand & Gravel Co. Columbus #319 Lockbourne #213	Franklin Hamilton, Madison Hamilton Marion Hamilton	sand—building, portland cement concrete, asphaltic concrete gravel—building, asphaltic concrete sand—road construction/resurfacing gravel—road construction/resurfacing sand—building gravel—building sand—portland cement concrete, asphaltic concrete gravel—building, portland cement concrete, asphaltic concrete, unspecified sand—portland cement concrete, asphaltic concrete, unspecified gravel—building, asphaltic concrete, unspecified sand—building gravel—building sand—building, portland cement concrete, asphaltic concrete gravel—building, portland cement concrete, asphaltic concrete	Fn-36 Fn-14 Fn-52 Fn-6 Fn-23
Fulton	Mason's Sand & Gravel Co./ George C. Smith Olen Corp.	Mason's Sand & Gravel Co. Columbus Plant #3	Hamilton Hamilton	gravel—building, asphaltic concrete, unspecified sand—building gravel—building sand—building, portland cement concrete, asphaltic concrete gravel—building, asphaltic concrete	Fn-11 Fn-58
Gallia	Al Mackey Enterprises, Inc. Sandman Trucking, Inc.	Mackey Sandman Trucking, Inc.	Swan Creek Swan Creek	sand—building sand—building	Ftn-M2 Ftn-SA
Geauga	Jaclob Enterprises, Inc. Ours Sand & Gravel Haueter Sand & Gravel, Inc. T & K Kuhnle Co. Solon Excavators Sand & Gravel, Inc.	Cheshire Pit Ours Sand & Gravel Haueter Sand & Gravel, Inc. Munn Rd. Sand & Gravel May Soltis Sand & Gravel Teague Gravel Co., Inc.	Cheshire Ohio Burton, Newbury Auburn Auburn Parkman Newbury	gravel—filtration, leachate landfill sand—unspecified sand—building, portland cement concrete gravel—filtration, oversize sand—building gravel—building sand—building gravel—building sand—fill gravel—unspecified sand—building, portland cement concrete gravel—building, road construction/resurfacing, filtration	Ga-JE Ga-O Gea-29 Gea-TK Gea-43 Gea-9 Gea-35
Greene	M.J. Coates Construction Co., Inc. Hilltop Basic Resources, Inc.	M.J. Coates Construction Co., Inc. M.J. Coates Construction Co., Inc. Fairborn Aggregate Plant	Spring Valley Spring Valley Bath	gravel—road construction/resurfacing gravel—road construction/resurfacing sand—building, portland cement concrete, asphaltic concrete, fill, pre-cast gravel—portland cement concrete, asphaltic concrete, base, fill	Ge-47 Ge-G Ge-4

¹Information for Ca-S includes information for Mg-632.

2000 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY—Continued

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Greene (cont.)	Martin Marietta Aggregates	Haines Rd. #182	Beaver Creek	sand—unspecified	Ge-32
		Spring Valley Gravel #346	Spring Valley	gravel—unspecified	Ge-42
		Xenia Gravel #337	Beaver Creek, Xenia	gravel—unspecified	Ge-33
	R.J. Martin Service & Excavating Phillips Sand & Gravel	Horseshoe Bend Sand & Gravel Phillips Sand & Gravel	Spring Valley Beaver Creek	gravel—unspecified gravel—pit run sand—unspecified	Ge-40 Ge-36
Hamilton	Xenia Sand, Gravel, & Asphalt Co.	Xenia Sand & Gravel Co.	Xenia	gravel—unspecified sand—fill	Ge-10
	Allgeier & Son, Inc.	Allgeier & Son, Inc.	Miami	gravel—fill sand—building	Hmn-C
		Allgeier & Son, Inc. Pit 2	Whitewater	gravel—building sand—building	Hmn-AS
	Ashcraft Sand & Gravel, Inc.	Ashcraft Sand & Gravel, Inc.	Whitewater	gravel—building sand—building	Hmn-54
	James Bunnell, Inc.	James Bunnell, Inc.	Harrison, Whitewater	gravel—building sand—unspecified	Hmn-50
		James Bunnell, Inc.	Whitewater	gravel—unspecified sand—unspecified	Hmn-59
	Joe E. Carter	Lost Bridge	Whitewater	gravel—unspecified sand—unspecified	Hmn-JC
	Crosby Gravel	Crosby Gravel	Crosby	gravel—unspecified sand—golf course	Hmn-44
	Golsch Construction, Inc.	Golsch	Whitewater	gravel—building sand—unspecified	Hmn-G
	Harrison Sand & Gravel Co.	Harrison Sand & Gravel Co.	Harrison	gravel—unspecified sand—building, portland cement concrete, road construction/ resurfacing, filtration, ice control	Hmn-17
	Martin Marietta Aggregates	Camp Dennison #455	Symmes	gravel—unspecified sand—unspecified	Hmn-5
		Harrison Sand & Gravel #188	Harrison	gravel—unspecified sand—unspecified	Hmn-37
	Powell Gravel & Topsoil, Inc.	Miamitown #193	Crosby, Whitewater	gravel—unspecified sand—unspecified	Hmn-D
		Powell Gravel & Topsoil, Inc. #2	Miami	gravel—unspecified sand—building	Hmn-P
	R. L., Ltd. Southern Ohio Aggregates, Inc.	Powell Gravel & Topsoil, Inc.	Whitewater	gravel—building sand—unspecified	Hmn-71
		R. L., Ltd.	Crosby	gravel—building sand—building	Hmn-67
		Kilby Road	Whitewater	gravel—building sand—building	Hmn-SO

Hocking	Watson Gravel, Inc.	Campbell Rd. Dry Fork Harrison Pit	Harrison Whitewater Whitewater	gravel—building gravel—building sand—building, portland cement concrete, asphaltic concrete, fill gravel—building, portland cement concrete, road construction/resurfacing sand—building gravel—building sand—building gravel—building	Hmn-69 Hmn-68 Hmn-60
	Welch Sand & Gravel, Inc.	East Miami Pit Fernald Pit	Colerain Crosby	sand—building gravel—building sand—building gravel—building	Hmn-48 Hmn-42
	Hocking Valley Concrete, Inc.	Hocking Valley Concrete, Inc.	Green	sand—portland cement concrete, block gravel—portland cement concrete, block sand—fill gravel—fill sand—unspecified gravel—unspecified	Hg-262 Hg-HV Hg-329
	Hocking Valley Mulch	Sheets Pit	Falls	sand—unspecified gravel—unspecified	Hg-301
	Kilbarger Construction, Inc.	Kilbarger Gravel Pit	Falls	sand—unspecified gravel—unspecified	Hg-301
	Muskingum River Gravel Co.	S & S Aggregate #8	Green, Starr	sand—unspecified gravel—unspecified	Hg-301
	Craigton Shale Co.	Lakeville Sand & Gravel	Washington	sand—building gravel—building	Hs-C
	Feikert Sand & Gravel, Inc.	Feikert Sand & Gravel, Inc.	Salt Creek	sand—building, portland cement concrete, road construction/ resurfacing gravel—building, portland cement concrete, road construction/ resurfacing	Hs-511
	Menuez Bros. Sand & Gravel, Inc.	Woodlawn Associates Mine Menuez Bros. Sand & Gravel, Inc.	Prairie Hardy	gravel—fill sand—portland cement concrete, fill, ice control gravel—portland cement concrete, road construction/ resurfacing, filtration	Hs-F1 Hs-82
	S & S Transport, Inc.	S & S Mining	Prairie	sand—portland cement concrete, asphaltic concrete, road construction/resurfacing, fill gravel—building, asphaltic concrete, road construction/ resurfacing, filtration	Hs-J
Huron	Spring Run Gravel	Spring Run Gravel	Killbuck	sand—unspecified gravel—unspecified	Hs-96
	Erie Blacktop, Inc.	Erie Blacktop, Inc.	Norwalk	sand—building	Hrn-16
Knox	Olen Corp.	Fredericktown Plant #2	Morris	sand—portland cement concrete, asphaltic concrete gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Kx-16
	Small's Sand & Gravel, Inc.	Small's Sand & Gravel, Inc.	Harrison	sand—unspecified gravel—unspecified	Kx-15
	Small's Sand & Gravel, Inc.	Small's Sand & Gravel, Inc.	Harrison Howard	gravel—unspecified sand—unspecified	Kx-17 Kx-S
	Small's Sand & Gravel, Inc.	Small's Sand & Gravel, Inc.	Union	gravel—unspecified sand—unspecified	Kx-5
	United Aggregates, Inc.	Sant Sand & Gravel, Inc.	Clinton	gravel—unspecified sand—building gravel—building, road construction/resurfacing	Kx-3

2000 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY—Continued

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Lake	C.I.R., Inc. R. W. Sidley, Inc.	Harmon Painesville Plant	Madison Painesville	gravel—fill sand—fill	Lke-CIR Lke-7
Lake Erie	Erie Sand & Gravel Co. Osborne Materials Co.	Erie Sand & Gravel Co. Osborne Materials Co.	Vermilion-Lorain area "A" Fairport	sand—unspecified sand—building, portland cement concrete, asphaltic concrete, fill	Hedredge Hedredge
Lawrence	B & L Sand Co. Burlington Sand & Gravel Co.	B & L Sand Co. Burlington Sand & Gravel Co.	Perry Perry	sand—bank run sand—unspecified	Le-430 Le-426
Licking	Eagle Material Olen Corp.	Eagle Material Supply St. Louisville Plant #5	St. Albans Washington	sand—building gravel—building sand—building, portland cement concrete, asphaltic concrete, golf courses	Lg-W Lg-31
Logan	Redskin Transport LLC Van Wey Sand & Gravel, Inc.	Sleepy Hollow Pit Van Wey Sand & Gravel, Inc.	Madison Newton	gravel—building, asphaltic concrete sand—building gravel—building sand—building gravel—building	Lg-S Lg-10
Logan	Boyd Excavating C. E. Duff & Son, Inc. Logan Construction Neer's Sand & Gravel Betty Sewell and Rebecca Johnson	Boyd Excavating Duff Sand Co. Logan Construction Neer's Sand & Gravel Sewell and Johnson	Monroe Washington Rush Creek Union Liberty	sand—asphaltic concrete gravel—building sand—building, portland cement concrete sand—driveway base gravel—driveway base sand—unspecified gravel—unspecified sand—fill	Lgn-B Lgn-31 Lgn-L Lgn-6 Lgn-J
Lorain	Guy Schieve	Guy Schieve Pit	Henrietta	sand—unspecified	Ln-12
Lucas	Sandman Trucking, Inc. Seaway Sand & Stone, Inc.	Sandman Trucking, Inc. Seaway Sand & Stone, Inc.	Springfield Swanton	sand—building sand—building, construction	Ls-ST Ls-13
Madison	Tuffco Sand & Gravel, Inc.	Tuffco Sand & Gravel, Inc.	Darby	sand—portland cement concrete, road construction/ resurfacing, industrial sand gravel—building, road construction/resurfacing	Mdn-11
Marion	Fleming Construction Co., Inc.	Pit #1 Pit #2	Prospect Prospect	sand—portland cement concrete, mason gravel—fill, decorative sand—fill	Mn-16 Mn-19
Medina	Baker Sand, Inc. Seville Sand & Gravel, Inc.	Baker Sand, Inc. Seville Sand & Gravel, Inc.	Harrisville, Westfield Harrisville, Westfield	sand—building, portland cement concrete gravel—road construction/resurfacing sand—building, asphaltic concrete, fill gravel—building, road construction/resurfacing, filtration	Ma-20 Ma-22

Meigs	Jaymar, Inc.	Plant #4	Olive	sand—unspecified gravel—unspecified	Ms-308
	Martin Marietta Aggregates	Apple Grove Plant	Letart	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill	Ms-205
	Shelly Materials, Inc.	Shelly Materials Inc. Plant #6	Letart	gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified	Ms-298
Miami	Fenner Sand & Gravel, Inc.	Woodville Concrete Corp.	Newton	sand—unspecified	Mi-4
	Martin Marietta Aggregates	Troy Gravel #345	Concord	gravel—unspecified sand—unspecified	Mi-3
	Shelly Materials, Inc.	Shelly Materials, Inc. Plant #22	Union	gravel—unspecified sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration road construction/resurfacing, fill, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing filtration, unspecified sand—unspecified gravel—unspecified	Mi-504 Mi-12
Montgomery	Tipp Stone Co., Inc.	Tipp Stone Co., Inc.	Elizabeth	gravel—unspecified	
	Carter & Carter, Inc.	Carter & Carter, Inc.	Miami	gravel—building, road construction/resurfacing	My-CW
	Hilltop Basic Resources, Inc.	West Carrollton Aggregate Plant	Jefferson, Miami	sand—building, portland cement concrete, asphaltic concrete, fill, pre-cast gravel—portland cement concrete, asphaltic concrete, base, fill	My-19
Morgan	Martin Marietta Aggregates	Rip Rap Rd. #338	Wayne	sand—unspecified	My-66
	Miller Bros. Gravel, Inc.	Miller Bros. Gravel, Inc.	Butler	gravel—unspecified sand—building, portland cement concrete, ice control, mason sand, unspecified	My-52
	Moraine Materials Co., Inc.	Moraine Materials Co., Inc. Plant 21	German	gravel—building, portland cement concrete, road construction/ resurfacing, filtration, unspecified sand—building, portland cement concrete, asphaltic concrete, gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing	My-41
Morrow	Tipp Stone Co., Inc.	Meeker	Butler	road construction/resurfacing sand—unspecified gravel—unspecified	My-61
	Chesterhill Stone Co.	Buck Farm	Windsor	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill	Mon-588
		Fordham Farm	Windsor	gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill road construction/resurfacing, fill	Mon-CS1
Morrow	Link Trucking Co., Inc.	Link Trucking Co., Inc.	Bloom	gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration sand—building, portland cement concrete, fill, grit gravel—building, portland cement concrete, road construction/resurfacing, filtration, unspecified	Mon-L
	Chesterville Sand & Gravel Co., Inc.	Chesterville Sand & Gravel Co., Inc.	Chester	sand—building, fill gravel—building, road construction/resurfacing, filtration	Mw-10

2000 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY—Continued

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Muskingum	Muskingum River Gravel Co.	S & S Aggregate #1	Wayne	sand—building, asphaltic concrete, road construction/resurfacing, unspecified gravel—building, asphaltic concrete, road construction/resurfacing, unspecified	Mum-228
	Shelly Materials, Inc.	Shelly Materials, Inc. Plant #9	Cass	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Mum-799
	Complete Resources Co.	Darby Materials Plant #5	Darby	sand—portland cement concrete, road construction/resurfacing	Fn-C
Pickaway	Darby Creek Excavating, Inc.	Darby Creek Excavating, Inc.	Muhlenburg	gravel—building, asphaltic concrete	Pky-DC
	William A. Hoffman, Jr.	Hoffman Pit	Wayne	sand—utility	Pky-H
	George J. Igel & Co., Inc.	Valley Sand & Gravel, Inc.	Darby	gravel—utility	Pky-C
	The Melvin Stone Co., LLC	Circleville	Wayne	gravel—fill gravel—road construction/resurfacing	Pky-R
	Gene T. Wilson	Gene T. Wilson	Darby	sand—building, portland cement concrete, asphaltic concrete gravel—building, asphaltic concrete, road construction/resurfacing, farm/residential	Pky-W
Pike	Davon, Inc.	Piketon Sand & Gravel	Scioto	sand—building gravel—building	Pke-24
	South Central Sand & Gravel	South Central Sand & Gravel	Scioto	sand—unspecified gravel—unspecified	Pke-30
	Valley Materials Co.	Valley Materials #2	Scioto	sand—portland cement concrete gravel—road construction/resurfacing	Pke-V
		Valley Materials Co.	Scioto	sand—road construction/resurfacing gravel—road construction/resurfacing	Pke-26
			Scioto	sand—building, road construction/resurfacing, fill gravel—building, filtration	
Portage	Ballentine Excavation Co.	Ballentine Lake	Shalersville	sand—unspecified gravel—unspecified	Pe-BA
	Beck Sand & Gravel, Inc.	Beck Sand & Gravel, Inc.	Shalersville	sand—building, portland cement concrete gravel—road construction/resurfacing, filtration, roofing, landscaping	Pe-50
	Blue Stone Sand & Gravel, Inc.	Blue Stone Pit #1	Mantua	sand—building, asphaltic concrete	Pe-B1
	Oscar Brugmann Sand & Gravel, Inc.	Oscar Brugmann Sand & Gravel, Inc.	Shalersville	gravel—building, asphaltic concrete, landscaping sand—unspecified	Pe-9
	R.A. Cruise Sand & Gravel, Inc.	R.A. Cruise Sand & Gravel, Inc.	Franklin, Ravenna	gravel—unspecified sand—portland cement concrete, asphaltic concrete	Pe-45
	D & K Materials, Inc.	D & K Materials, Inc.	Brimfield	gravel—building, fill sand—building	Pe-101
	Don's Dozer Service, Inc.	Don's Dozer Service, Inc.	Streetsboro	gravel—road construction/resurfacing sand—building	Pe-96
	GANS Ltd.	GANS Ltd. dba Brimfield Sand & Soils	Brimfield	sand—building gravel—building	Pe-102

2000 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY—Continued

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Richland	Bartley & Bolin Excavating	Bartley & Bolin, Inc.	Weller	sand—building gravel—building	Rd-20
	D. H. Bowman & Sons, Inc.	D. H. Bowman & Sons, Inc.	Jefferson	sand—asphaltic concrete, fill gravel—asphaltic concrete, road construction/resurfacing, filtration, driveways, fill, pipe bedding	Rd-4
	Ganges Gravel Co.	Ganges Gravel Co.	Cass	sand—building gravel—building	Rd-18
	John L. Garber Materials, Inc.	John L. Garber Materials, Inc.	Troy	sand—building gravel—building	Rd-14
	S & S Aggregate, Inc.	S & S Agg. #14	Monroe	gravel—building sand—asphaltic concrete, road construction/resurfacing, unspecified gravel—asphaltic concrete, road construction/resurfacing, unspecified	Rd-5
Ross	David E. Edgington	Edgington Pit	Concord	sand—building gravel—building	Rs-E
	Haubeil & Sons Asphalt & Materials, Inc.	Haubeil & Sons Asphalt & Materials, Inc.	Springfield	sand—building, portland cement concrete, asphaltic concrete gravel—asphaltic concrete, road construction/resurfacing, filtration	Rs-H
	Muskingum River Gravel Co.	S & S Aggregate Plant #7	Jefferson	sand—asphaltic concrete, road construction/resurfacing, unspecified gravel—asphaltic concrete, road construction/resurfacing, unspecified	Rs-M
	Mark E. Scott	Scott Pit	Green	sand—building gravel—building	Rs-P
	Shelly Materials, Inc.	Shelly Materials, Inc. Plant #21	Springfield	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill, unspecified gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration sand—road construction/resurfacing gravel—road construction/resurfacing	Rs-27
Scioto	Tackett Builders	Tackett's Pit	Springfield	concrete, road construction/resurfacing, filtration sand—road construction/resurfacing gravel—road construction/resurfacing	Rs-T
	ATS Enterprises	ATS Enterprises	Green	sand—building, portland cement concrete, road construction/ resurfacing gravel—building, road construction/resurfacing sand—road construction/resurfacing	So-79
	E. E. Blair Construction Co.	Cab Pit	Porter	gravel—road construction/resurfacing sand—road construction/resurfacing	So-98
	D.G.M., Inc.	Tow Path Ready Mix	Morgan	gravel—road construction/resurfacing sand—building, portland cement concrete	So-DGM
	Davon, Inc.	Scioto Valley Resources	Valley	gravel—building, portland cement concrete sand—unspecified gravel—unspecified	So-100
Shelby	Miami River Stone Co.	Miami River Stone Co.	Orange	sand—road construction/resurfacing gravel—road construction/resurfacing	Shy-17
		Staley Pit	Clinton, Salem	gravel—building	Shy-SS

Stark	Spring Creek Corp.	Jones Deposit	Washington	sand—asphaltic concrete gravel—asphaltic concrete	Shy-18
		Pence Deposit	Washington	sand—portland cement concrete, asphaltic concrete gravel—portland cement concrete, asphaltic concrete	Shy-11
	American Sand & Gravel, Inc.	Plant 2	Jackson	sand—road construction/resurfacing	Sk-203
		Plant 4	Jackson	gravel—road construction/resurfacing sand—road construction/resurfacing	Sk-243
	Beaver Excavating, Inc.	Stone Products	Canton	gravel—road construction/resurfacing sand—unspecified	Sk-BE
	Central-Allied Enterprises, Inc.	Canton Aggregate Div.	Plain	gravel—unspecified sand—portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified	Sk-681
		Central Aggregate Div.	Perry	gravel—portland cement concrete, asphaltic concrete, road construction/resurfacing, unspecified sand—road construction/resurfacing, unspecified	Sk-CA
		Massillon Washed Gravel Div.	Bethlehem	gravel—road construction/resurfacing, unspecified sand—unspecified	Sk-607
		Massillon Washed Gravel Div.	Bethlehem	gravel—unspecified sand—unspecified	Sk-MW
	Heiser Sand & Gravel Corp.	Heiser Sand & Gravel Corp.	Jackson	gravel—unspecified sand—building	Sk-HS1
Summit	Lafarge Corp.	Navarre-Northern Division	Bethlehem, Perry	gravel—building sand—unspecified	Sk-241
	Massillon Materials, Inc.	Massillon Materials, Inc.	Perry	gravel—unspecified sand—unspecified	Sk-M
	National Aggregates, Inc.	MMI Warmington Plant National Aggregates, Inc.	Perry Sandy	sand—asphaltic concrete, road construction/resurfacing gravel—asphaltic concrete, road construction/resurfacing	Sk-M1
	Northern Ohio Paving Co.	Allied Plant #3	Perry	gravel—road construction/resurfacing sand—unspecified	Sk-1017
	Oster Sand & Gravel, Inc.	Massillon Plant	Perry	gravel—unspecified sand—unspecified	Sk-N
		Mudbrook Plant	Jackson, Perry	sand—portland cement concrete, asphaltic concrete gravel—asphaltic concrete, road construction/resurfacing sand—building, portland cement concrete, asphaltic concrete, fill	Sk-165
		Alden Excavating	Jackson	fill gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill sand—fill gravel—fill	Sk-R
	Alden Sand & Gravel Co.	Donald A. Coy Fletcher Sand & Gravel, Inc.	Northampton Norton	sand—unspecified gravel—unspecified	St-55
	Riverside Sand & Gravel Co., Inc. S & S Aggregate, Inc.	McCoy Pit Riverside Sand & Gravel Co., Inc. Twin Lakes-S & S Agg. #9	Norton Stow, Tallmadge Coventry	sand—building gravel—building sand—fill sand—unspecified	St-DC St-52 St-24 St-44
	Nick's Trucking Samco, Inc.	Nick's Trucking Springbrook	Mesopotamia Mesopotamia	sand—asphaltic concrete, unspecified gravel—asphaltic concrete, road construction/resurfacing, unspecified	TI-16 TI-12
Trumbull	Nick's Trucking Samco, Inc.	Nick's Trucking Springbrook	Mesopotamia Mesopotamia	sand—building sand—building, portland cement concrete, asphaltic concrete, fill gravel—building	TI-16 TI-12

2000 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY—Continued

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Tuscarawas	JBM Ltd.	State Rte. 416 Sand & Gravel	Goshen	sand—building	Ts-2018
	L & M Mineral Co.	Spring Industries	Goshen, Warwick	gravel—building	Ts-SI
	Massillon Materials, Inc.	MMI Sandville Plant	Sandy	sand—building	Ts-MM
	Newton Asphalt Paving, Inc.	516	Dover	gravel—road construction/resurfacing	Ts-2001
	Oster Sand & Gravel, Inc.	Oster Sand & Gravel, Inc.-Bolivar	Sandy	sand—asphaltic concrete	Ts-2036
				gravel—asphaltic concrete	
				sand—building, portland cement concrete, asphaltic concrete, fill	
				gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill	
	Sidco Development, Inc.	Midvale Sand & Gravel	Goshen	sand—portland cement concrete, road construction/resurfacing, fill	Ts-S2
	Soehnlen Bros. Sand & Gravel, Inc.	Soehnlen Bros. Sand & Gravel, Inc.	Wayne	gravel—portland cement concrete, road construction/resurfacing, block mfg.	Ts-1826
Warren	Stocker Sand & Gravel Co.	Stocker Sand & Gravel Co.-Gnaden	Clay	sand—building, portland cement concrete, road construction/resurfacing, industrial	Ts-69
		Stocker Sand & Gravel Co.-Island	Clay	gravel—building, asphaltic concrete, road construction/resurfacing, filtration	Ts-125
	L & I Natural Resources, Inc.	L & I Pit & Mill	Union	sand—building	Wan-50
	Little Miami Sand & Gravel	Little Miami Sand & Gravel Plant #1	Salem	gravel—building	Wan-B
		Little Miami Sand & Gravel Plant 2	Salem	sand—unspecified	Wan-46
	Martin Marietta Aggregates	Franklin Gravel #189	Franklin	gravel—unspecified	Wan-38
	Miami View Mining Co., Ltd.	Miami View	Union	sand—unspecified	Wan-MV
	Morrow Gravel Co.	Morrow Plant	Salem	sand—bank run	Wan-M2
	Carl E. Oeder & Sons Sand & Gravel	Carl E. Oeder & Sons Sand & Gravel	Turtle Creek	gravel—building, asphaltic concrete	Wan-41
				sand—unspecified	
Washington	Atlas Towing Co.	Belpre Bank Run	Belpre	gravel—unspecified	Wn-54
	Beverly Slag Co.	Devola Pit	Muskingum	sand—bank run	Wn-55
	Briggs Sand & Gravel, Inc.	Briggs Sand & Gravel, Inc.	Warren	gravel—unspecified	Wn-508
				sand—building	

Wayne	Chesterhill Stone Co.	Willow Island	Newport	sand—building, portland concrete, asphaltic concrete, road construction/resurfacing, fill gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration sand—unspecified gravel—unspecified sand—unspecified gravel—unspecified sand—unspecified gravel—unspecified	Wn-C
	Grimes Excavating	Grimes Sand and Gravel	Grandview		Wn-1008
	Muskingum River Gravel Co.	Plant #2	Grandview		Wn-38
	Trout Sand & Gravel Co.	Trout Sand & Gravel Co.	Warren		Wn-510
	Buckeye Excavating Development, Inc. Prairie Lane Sand & Gravel Co.	Steven Steiner Prairie Lane Sand & Gravel Co.	Canaan Franklin	gravel—building sand—building, road construction/resurfacing, fill gravel—building sand—building, portland cement concrete, asphaltic concrete gravel—building, portland cement concrete, asphaltic concrete sand—building, portland cement concrete, fill gravel—fill	We-23 We-11 We-7 We-15
Williams	Rupp Construction, Inc.	Rupp Construction, Inc.	Baughman		
	Zollinger Sand & Gravel Co.	Zollinger Sand & Gravel Co.	Chippewa		
	Heer Excavating, Inc.	Mason Pit	Superior	sand—building gravel—building sand—building gravel—building	Ws-22
	Andy Nixon Contractors, Inc.	Nixon Pit	Madison		Ws-N
	Stoneco, Inc.	Montpelier S.-Takacs Pit	Superior	sand—building, portland cement concrete, asphaltic concrete, road construction/resurfacing gravel—building, portland cement concrete, asphaltic concrete, road construction/resurfacing sand—unspecified gravel—unspecified sand—building, portland cement concrete gravel—building, fill	Ws-T Ws-21 Ws-11
Wyandot	Thiel Construction Co.	Thiel Construction Co.	Superior		
	Weber Sand & Gravel, Inc.	Weber Sand & Gravel, Inc.	St. Joseph		
	Kirby's Sand & Gravel, Inc.	Kirby's Sand & Gravel, Inc.	Crane, Eden	sand—building, fill gravel—building, filtration sand—building, portland cement concrete gravel—portland cement concrete sand—portland cement concrete gravel—building	Wt-17 Wt-15 Wt-4
	National Lime & Stone Co.	Upper Sandusky Plant	Eden		
	Precision Aggregate, Inc.	Precision Aggregate I	Eden		

**2000 SANDSTONE/CONGLOMERATE COMPANIES
WITH SALES OR PRODUCTION**

Company	No. of operations	Sales (tons)	Production (tons)
Alan Stone Co., Inc.	1	12,150	12,150
Best Sand Corp.	2	873,934	971,997
Briar Hill Stone Co.	4	24,094	24,094
Oscar Brugmann Sand & Gravel, Inc.	1	29,224	35,000
Cleveland Quarries	1	7,199	12,976
E. A. Construction, Inc.	1	32,310	32,310
Keeney Sand & Stone, Inc.	1	87,766	87,766
Mesenburg Bros., Inc.	1	9,107	9,107
Mt. Eaton Reclamation, Inc.	1	23,399	23,399
Oglebay Norton Industrial Sands, Inc.	2	419,953	419,953
Riverside Sand & Gravel Co., Inc.	1	2,206	2,206
Samco, Inc.	1	151	151
Schrader and Son, Inc.	1	47,614	47,614
R. W. Sidley, Inc.	2	160,830	160,830
Sidwell Materials, Inc.	1	2,755	2,755
Slankard Dozer Service, Inc.	1	4,500	4,500
Solomon's Mines, Inc.	1	19,022	19,022
Suburban South Recycling & Disposal Facility	1	788,702	788,702
U.S. Silica Co.	1	16,300	20,000
Waller Bros. Stone Co.	2	18,226	18,226
TOTAL: 20 companies	27	2,579,442	2,692,758

2000 OHIO DIRECTORY OF SANDSTONE/CONGLOMERATE MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

For those mines for which the Division of Mines has not assigned a state mine number, a letter designation is used (example: Gea-N).

SANDSTONE/CONGLOMERATE OPERATORS DIRECTORIES

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County	Name of operator	Name of quarry	Township	Geological unit	Type and principal use	State mine number
Belmont	Sidwell Materials, Inc.	Bellaire Stone	Pultney	Pennsylvanian	crushed or broken stone—riprap	Bt-1190
Columbiana	Solomon's Mines, Inc.	Solomon's Mines, Inc.	Salem		crushed or broken stone—riprap	Ca-S ¹
Coshocton	Briar Hill Stone Co.	Quarry #26 Quarry #32 Quarry #55 Quarry #3	Monroe Monroe Monroe Tiverton	Massillon (Pennsylvanian) Massillon (Pennsylvanian) Massillon (Pennsylvanian) Massillon (Pennsylvanian)	dimension stone—architecture dimension stone—architecture dimension stone—rough construction dimension stone—rough construction	Cn-13 Cn-686 Cn-815 Cn-659
Erie	Cleveland Quarries	Birmingham Quarry	Florence	Berea (Mississippian)	dimension stone—rough construction, rubble, finished stone	Ee-21
Geauga	Best Sand Corp.	Best Sand Corp.	Munson	Sharon conglomerate (Pennsylvanian)	crushed or broken stone—foundry sand, glass sand, metallurgical pebble, refractory, polishing/grinding sand, engine sand, construction, industrial sand	Gea-3
	R. W. Sidley, Inc.	Hambden Pit Thompson Pit	Hambden Thompson	Sharon conglomerate (Pennsylvanian) Sharon conglomerate (Pennsylvanian)	crushed or broken stone—construction crushed or broken stone—construction, aggregate, construction, golf course sand	Gea-S Gea-1
Huron	Mesenburg Bros., Inc.	Mesenburg Bros., Inc.	Townsend	Berea (Mississippian)	crushed or broken stone—aggregate	Hrn-8
Knox	Oglebay Norton Industrial Sands, Inc.	Millwood Plant	Butler, Union	Black Hand (Mississippian)	crushed or broken stone—foundry sand, glass sand, silica flour, engine sand, construction, industrial, landscape sand	Kx-1
Lake	Keeney Sand & Stone, Inc.	Keeney Sand & Stone, Inc.	Leroy		crushed or broken stone—aggregate, construction	Lke-K
Perry	Oglebay Norton Industrial Sands, Inc.	Glass Rock Plant	Hopewell	Massillon (Pennsylvanian)	crushed or broken stone—glass sand, refractory, silica flour, construction, landscape	Py-344
	Suburban South Recycling & Disposal Facility	Suburban South Recycling & Disposal Facility	Hopewell		crushed or broken stone—unspecified	Py-SU
Pike	Best Sand Corp.	Best Sand Corp.	Jackson	Sharon conglomerate (Pennsylvanian)	crushed or broken stone—foundry sand, glass sand, metallurgical pebble, refractory, polishing/grinding sand, engine sand, construction, industrial	Pke-31
	Schrader and Son, Inc.	Schrader & Son, Inc.	Jackson	Sharon conglomerate (Pennsylvanian)	crushed or broken stone—foundry sand	Pke-S
Portage	Oscar Brugmann Sand & Gravel, Inc.	Oscar Brugmann Sand & Gravel, Inc.	Shalersville		crushed or broken stone—unspecified	Pe-9
Scioto	Waller Bros. Stone Co.	Crabtree Quarry Inskeep Quarry	Union Rush	Buena Vista (Mississippian) Buena Vista (Mississippian)	dimension stone—rough construction dimension stone—rough construction	So-76 So-48
Summit	Riverside Sand & Gravel Co., Inc.	Riverside Sand & Gravel Co., Inc.	Stow, Tallmadge		crushed or broken stone—riprap	St-24
Trumbull	Samco, Inc.	Springbrook	Mesopotamia		crushed or broken stone—construction	Tl-12
Tuscarawas	Slankard Dozer Service, Inc. U.S. Silica Co.	Beach City Pit Dundee Mine	Franklin Wayne	Massillon (Pennsylvanian)	crushed or broken stone—construction crushed or broken stone—foundry	Ts-2032 Ts-1660
Washington	Alan Stone Co., Inc.	Marietta Quarry	Warren		crushed or broken stone—unspecified	Wn-45
Wayne	E.A. Construction, Inc. Mt. Eaton Reclamation, Inc.	#1 Mt. Eaton Reclamation, Inc.	Clinton Paint	Middle Kittanning (Pennsylvanian)	crushed or broken stone—construction crushed or broken stone—unspecified	We-EA We-26

¹Information for Ca-S includes information for Mg-632.

2000 CLAY COMPANIES WITH SALES OR PRODUCTION

Company	No. of operations	Sales (tons)	Production (tons)
American Landfill, Inc.	1	31,154	31,154
Athens Hocking Reclamation Center	1	271	271
Bearcreek Clay Co.	2	35,885	35,885
Belden Brick Co.	4	272,607	272,607
Blue Jay Enterprises of Ts. Co., Inc.	2	20,273	20,273
Bowerston Shale Co.	1	8,470	8,470
Browning-Ferris Industries of Ohio, Inc.	1	177,120	177,120
Buckeye Industrial Mining Co.	2	60,249	60,249
Cedar Heights Clay Co.	1	47,246	47,246
Countywide Recycling and Disposal Facility	1	44,265	44,265
County Disposal (Ohio), Inc.	1	114,452	114,452
D. & D. Mining Co.	1	27,135	27,135
E.A. Construction, Inc.	1	3,178	3,178
ENZ, Inc.	1	146,705	146,705
ESSROC Cement Corp.	1	4,190	4,190
East Fairfield Coal Co.	1	22,252	22,252
David L. Florence	1	20,063	20,063
Holmes Limestone Co.	2	44,031	44,031
Honey Creek Stone Co.	1	15,307	15,307
Van Johnson Construction, Inc.	1	2,382	8,382
Kelchner Environmental, Inc.	1	40,875	40,875
L & M Mineral Co.	2	10,375	10,375
Lafarge Corp.	1	144,158	144,158
Loxley Aggregates, Inc.	1	1,634	1,634
Luburgh Inc.	1	32,440	32,440
Mt. Eaton Reclamation, Inc.	1	1,800	1,800
Andy Nixon Contractors, Inc.	1	3,938	3,938
Nuway Services, Inc.	1	35,000	35,000
Patrick Excavating, Inc.	1	55,302	55,302
Putnam County Board of Commissioners	1	95,000	95,000
Red Brush Peat Co.	1	439	439
Rumpke Waste, Inc.	1	11,010	11,010
Sandkuhl Clay Works, Inc.	1	7,308	7,308
Seaway Sand & Stone, Inc.	1	21,674	21,674
Joe Simak & Sons Trucking, Inc.	1	14,716	14,716
Solomon's Mines, Inc.	2	886	886
Soltis Sand & Gravel	1	296	296
Southdown Inc.	1	5,924	0
State Line Resources, Inc.	1	112,683	112,683
Stone Creek Brick Co.	1	38,799	38,799
Suburban South Recycling & Disposal Facility	1	159,486	159,486
Towne Square Products	1	416	416
Tuffco Sand & Gravel, Inc.	1	135	135
Valley Clay Mining Co.	2	15,800	15,800
Joann O. Weddle	1	167,323	167,323
TOTAL: 45 companies	55	2,074,652	2,074,728

2000 OHIO DIRECTORY OF CLAY-MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

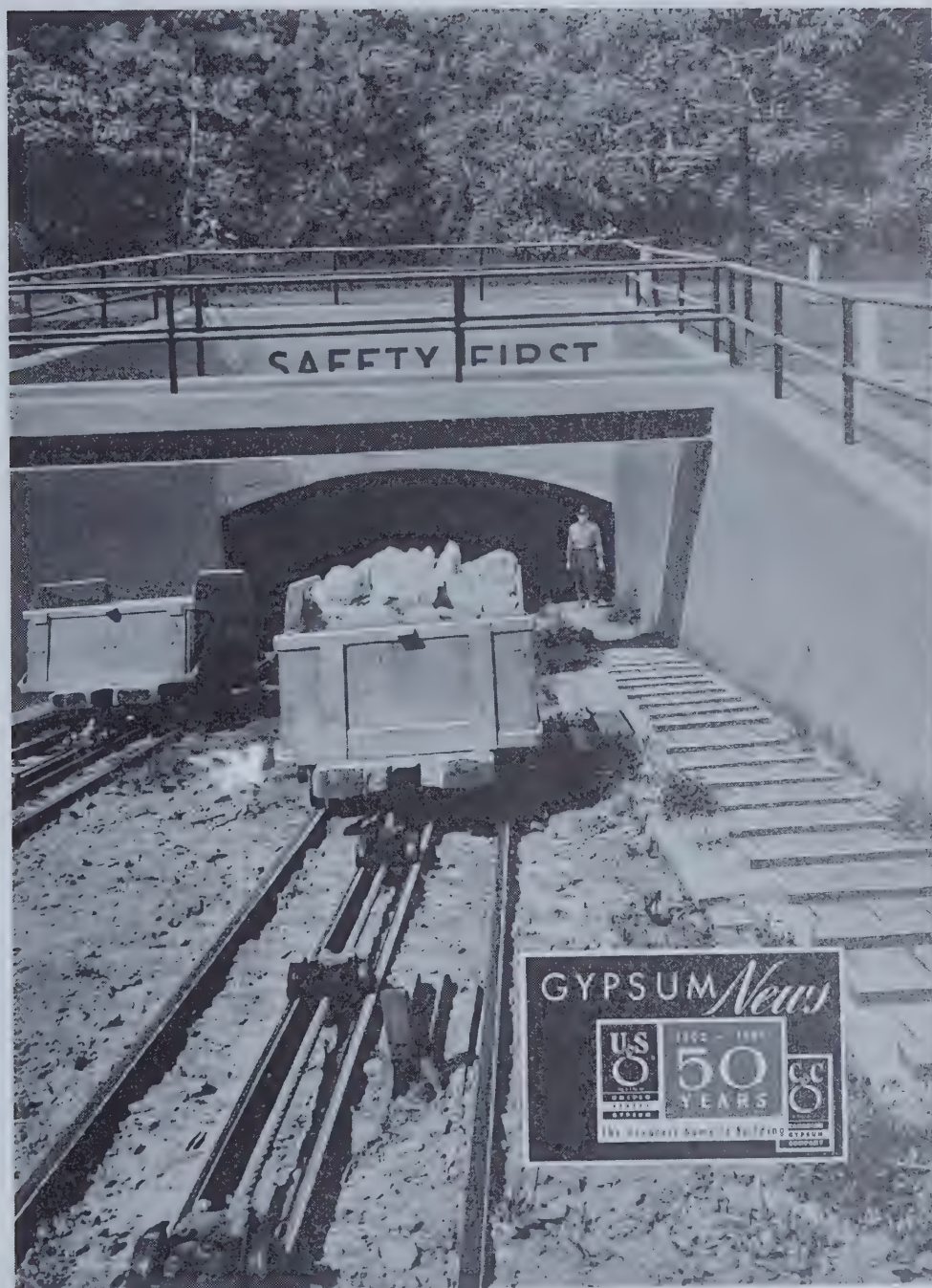
For those mines for which the Division of Mines has not assigned a state mine number, a letter designation is used (example: Cn-B).

County	Name of operator	Name of mine or quarry	Township	Geological unit	Principal use	State mine number
Ashtabula	Joe Simak & Sons Trucking, Inc.	North Ridge Pit	Kingsville		construction	Asa-18
Athens	Athens Hocking Reclamation Center	Athens Hocking Reclamation Center	York		oil & gas well plugging	As-594
Auglaize	Sandkuhl Clay Works, Inc.	Sandkuhl Clay Works, Inc.	Salem	Pleistocene	unspecified	Ac-7
Brown	Rumpke Waste, Inc.	Rumpke Waste, Inc.	Pleasant		landfill	Bn-W
Butler	Kelchner Environmental, Inc.	Santefost Property	St. Clair		landfill	Br-K
Columbiana	Buckeye Industrial Mining Co.	West Point	Madison		landfill	Ca-987
	D. & D. Mining Co.	West Point Clay	Madison		vitrified products	Ca-BIM
	Solomon's Mines, Inc.	D. & D. Strip	Unity		refractories, landfill	Ca-348
	State Line Resources, Inc.	Solomon's Mines, Inc.	Salem		construction	Ca-S
		State Line Resources, Inc.	Middleton	Lower Kittanning (Pennsylvanian)	common clay products	Ca-505
Fairfield	Van Johnson Construction, Inc.	Molly Johnson Mining	Berne		construction	Fd-VJ
Geauga	Soltis Sand & Gravel	Soltis Sand & Gravel	Parkman		unspecified	Gea-9
Greene	Southdown Inc.	Miller et al.	Bath		cement manufacture	Ge-8
	Joann O. Weddle	Weddle Gravel	Xenia		common clay products	Ge-W
Holmes	Holmes Limestone Co.	241 Plant	Hardy	Putnam Hill (Pennsylvanian)	common clay products	Hs-67
Jackson	Cedar Heights Clay Co.	Harrison	Madison	Lower Kittanning (Pennsylvanian)	unspecified	Jkn-CH2
Licking	Nuway Services, Inc.	Hopewell	McKean	Pleistocene	landfill	Lg-NU
Lucas	Seaway Sand & Stone, Inc.	Seaway Sand & Stone, Inc.	Swanton		unspecified	Ls-13
Madison	Tuffco Sand & Gravel, Inc.	Tuffco Sand & Gravel, Inc.	Darby		fill	Mdn-11
Mahoning	East Fairfield Coal Co.	Withers-Petersburg	Springfield		refractories	Mg-631
	ESSROC Cement Corp.	Bessemer Pit	Poland		common clay products	Mg-608
	Honey Creek Stone Co.	Honey Creek Stone Co.	Springfield		unspecified	Mg-54
Muskingum	Bowerston Shale Co.	Frazeyburg	Jackson	Flint Ridge & Middle Mercer (Pennsylvanian)	vitrified products	Mum-776
	Luburgh Inc.	Luburgh Clay Pit	Monroe		landfill	Mum-L
	Valley Clay Mining Co.	Spring Mine	Newton	Tionesta (Pennsylvanian)	common clay products	Mum-904
Noble	Towne Square Products	Towne Square Products	Buffalo		common clay products	Ne-66
Ottawa	Browning-Ferris Industries of Ohio, Inc.	Ottawa County Landfill	Erie		landfill	Oa-BF
Paulding	Lafarge Corp.	Paulding Quarry	Grane	Silica Formation (Devonian)	cement manufacture	Pg-1
Perry	Bearcreek Clay Co.	Dutch Ridge Rd.	Monday Creek		common clay products	Py-338
	Suburban South Recycling & Disposal Facility	Saltulo	Clayton	Middle Kittanning (Pennsylvanian)	common clay products	Py-D1
	Valley Clay Mining Co.	Suburban South Recycling & Disposal Facility	Hopewell		landfill	Py-SU
		Tague Mine	Harrison	Lower Kittanning (Pennsylvanian)	common clay products	Py-V

*Information for Ca-S includes information for Mg-632.

2000 OHIO DIRECTORY OF CLAY-MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY—Continued

County	Name of operator	Name of mine or quarry	Township	Geological unit	Principal use	State mine number
Portage	Patrick Excavating, Inc. Red Brush Peat Co.	Patrick Red Brush Peat Co.	Charlestown Franklin		construction fill	Pe-P Pe-61
Preble	Loxley Aggregates, Inc.	Loxley Aggregates, Inc.	Twin		construction	Pre-9
Putnam	Putnam County Board of Commissioners	Putnam County Landfill Borrow Pit	Ottawa	Pleistocene	landfill	Pm-P
Stark	American Landfill, Inc. Countywide Recycling and Disposal Facility ENZ, Inc. Holmes Limestone Co.	American Landfill, Inc. Countywide Landfill Sickafoose Pit Bolivar	Sandy Pike	Lower Kittanning (Pennsylvanian)	landfill landfill	Sk-246 Sk-CR
Tuscarawas	Belden Brick Co.	Belden Pit	Pike, Sandy Bethlehem	Brookville (Pennsylvanian)	landfill	Sk-208 Sk-235
		Moomaw Pit Shanesville Pit Wallick Pit	Sugar Creek	Brookville, Lower Kittanning & Tionesta (Pennsylvanian)	common clay products	Ts-1646
	Blue Jay Enterprises of Ts. Co., Inc. L & M Mineral Co.	Blue Jay #1 Swonger Waltz Mine Luikart Spring Stone Creek Brick Clay Mine	Sugar Creek Sugar Creek Franklin, Wayne	Brookville & Tionesta (Pennsylvanian) Brookville (Pennsylvanian) Brookville & Lower Kittanning (Pennsylvanian)	common clay products common clay products common clay products common clay products	Ts-1517 Ts-1939 Ts-1841
	Stone Creek Brick Co.	Blue Jay #1 Swonger Waltz Mine Luikart Spring Stone Creek Brick Clay Mine	Sandy Sandy Mill, Warwick Jefferson	Brookville & Tionesta (Pennsylvanian) Brookville & Tionesta (Pennsylvanian)	common clay products common clay products common clay products vitrified products	Ts-BJ Ts-520 Ts-1914 Ts-1982 Ts-1557
Washington	David L. Florence	Florence Pit	Warren		common clay products	Wn-F
Wayne	E.A. Construction, Inc. Mt. Eaton Reclamation, Inc.	#1 Mt. Eaton Reclamation, Inc.	Clinton Paint	Middle Kittanning (Pennsylvanian)	unspecified common clay products	We-EA We-26
Williams	Andy Nixon Contractors, Inc.	Nixon Pit	Madison		construction	Ws-N
Wyandot	County Disposal (Ohio), Inc.	County Disposal (Ohio), Inc.	Crawford		construction, landfill	Wt-CD



Ore cars leaving the underground mine of United States Gypsum at Gypsum in Ottawa County, *circa* 1950. Photograph first appeared on the cover of the November 1952 issue of *Gypsum News* published by United States Gypsum.

**2000 SHALE COMPANIES WITH
SALES OR PRODUCTION**

Company	No. of operations	Sales (tons)	Production (tons)
American Landfill, Inc.	1	293,960	293,960
Barrett Paving Materials, Inc.	1	13,765	13,765
Bearcreek Clay Co.	2	48,945	48,945
Belden Brick Co.	4	242,749	242,749
Blue Jay Enterprises of Ts. Co., Inc.	2	7,126	7,126
Bowerston Shale Co.	2	56,541	56,541
Dome Minerals, Inc.	1	32,500	32,500
ESSROC Cement Corp.	2	83,612	83,612
Glen-Gery Corp.	1	220,959	220,959
Holmes Limestone Co.	2	44,993	44,993
Hydraulic Press Brick Co.	1	236,866	279,114
Knox County Board of Commissioners	1	981	981
L & M Mineral Co.	1	57,467	57,467
Prairie Lane Sand & Gravel Co.	1	5,113	5,113
Richland Moulded Brick Co.	1	22,130	22,130
Rumpke Mountain Mining Co.	1	1,095,477	1,095,477
Rumpke Waste, Inc.	1	19,275	19,275
Stone Creek Brick Co.	1	6,140	6,140
Suburban South Recycling & Disposal Facility	1	13,818	13,818
Summitville Tiles, Inc.	1	32,808	32,808
TOTAL: 20 companies	28	2,535,225	2,577,473

2000 OHIO DIRECTORY OF SHALE-MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

For those mines for which the Division of Mines has not assigned a state mine number, a letter designation is used (example: Kx-K).

County	Name of operator	Name of mine	Township	Geological unit	Principal use	State mine number
Brown	Rumpke Waste, Inc.	Rumpke Waste, Inc.	Pleasant		landfill	Bn-W
Columbiana	Dome Minerals, Inc. Summitville Tiles, Inc.	Dome Minerals, Inc. Summitville Shale	Franklin Franklin		brick pavers common clay products	Ca-947 Ca-205
Cuyahoga	Hydraulic Press Brick Co.	Hydraulic Press Brick Co.	Independence	Chagrin (Devonian)	lightweight aggregate	Cya-19
Hamilton	Rumpke Mountain Mining Co.	Rumpke Mountain Mining Co.	Colerain	Upper Ordovician	landfill	Hmn-72
Harrison	Bowerston Shale Co.	Bowerston	Monroe	Conemaugh Group (Pennsylvanian)	common clay products	Hn-152
Holmes	Holmes Limestone Co.	241 Plant	Hardy	Pennsylvanian	common clay products	Hs-67
Knox	Knox County Board of Commissioners	Apple Valley	Brown		construction	Kx-K
Licking	Bowerston Shale Co.	Hanover	Hanover	Logan Formation (Mississippian)	vitriified products	Lg-501
Lucas	Barrett Paving Materials, Inc.	Sylvania Quarry	Sylvania		cement manufacture	Ls-12
Mahoning	ESSROC Cement Corp.	Bessemer Pit Carbon Pit	Poland Poland, Springfield	Pennsylvanian Pennsylvanian	cement manufacture cement manufacture	Mg-608 Mg-EM
Marion	Glen-Gery Corp.	Iberia Quarry	Tully	Bedford (Mississippian)	common clay products	Mn-7
Perry	Bearcreek Clay Co. Suburban South Recycling & Disposal Facility	Dutch Ridge Rd. Saltito Suburban South Recycling & Disposal Facility	Monday Creek Clayton Hopewell	Middle Kittanning (Pennsylvanian)	common clay products common clay products landfill	Py-338 Py-D1 Py-SU
Richland	Richland Moulded Brick Co.	Richland Moulded Brick Co.	Franklin, Weller	Bedford (Mississippian)	common clay products	Rd-R
Stark	American Landfill, Inc.	American Landfill, Inc.	Sandy		landfill	Sk-246
Tuscarawas	Belden Brick Co.	Moomaw Pit Belden Pit	Sugar Creek Sugar Creek	Brookville & Tionesta (Pennsylvanian) Brookville, Lower Kittanning & Tionesta (Pennsylvanian)	common clay products common clay products	Ts-1517 Ts-1646
		Wallick Pit	Franklin, Wayne	Brookville & Lower Kittanning (Pennsylvanian)	common clay products	Ts-1841
		Shanesville Pit	Sugar Creek	Brookville (Pennsylvanian)	common clay products	Ts-1939
	Blue Jay Enterprises of Ts. Co., Inc.	Swonger Waltz Mine Blue Jay #1	Sandy Sandy	Brookville & Tionesta (Pennsylvanian) Brookville & Tionesta (Pennsylvanian)	common clay products common clay products	Ts-520 Ts-BJ
	Holmes Limestone Co.	L&M Rainsburg	Rush	Brookville & Tionesta (Pennsylvanian)	common clay products	Ts-H1
	L & M Mineral Co.	Evans, Heil	Rush	Pennsylvanian	common clay products	Ts-1884
	Stone Creek Brick Co.	Stone Creek Brick Shale Pit	Jefferson		common clay products vitriified products	Ts-1558
Wayne	Prairie Lane Sand & Gravel Co.	Prairie Lane Sand & Gravel Co.	Franklin		construction	Wc-11

**2000 OHIO DIRECTORY OF SALT-MINE AND SALT-BRINING-PLANT OPERATORS
REPORTING SALES OR PRODUCTION, BY COUNTY**

County	Name of operator	Name of mine	Township	Geological unit and product	State mine number
Cuyahoga	Cargill Incorporated	Cargill Salt, Inc.	City of Cleveland	Salina (Silurian)—rock salt	Cya-30
Lake	Morton International, Inc.	Fairport Mine	Painesville	Salina (Silurian)—rock salt	Lke-6
Licking	R. H. Penick Co.	R. H. Penick Co.	Newark	"Newburg" (Silurian)—natural brine	Lg-45
Summit	Cargill Incorporated	Cargill Incorporated	Coventry	Salina (Silurian)—artificial brine	St-9127
Wayne	Morton International, Inc.	Morton Salt Well Field	Milton	Salina (Silurian)—artificial brine	We-9129

2000 OHIO DIRECTORY OF GYPSUM-MINE OPERATORS REPORTING SALES OR PRODUCTION

County	Name of operator	Name of mine	Township	Geological unit	State mine number
Ottawa	BPB-Celotex Corp.	American #2	Portage	Silurian	Oa-2

2000 OHIO DIRECTORY OF PEAT-MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

County	Name of operator	Name of mine	Township	Type and principal use	State mine number
Champaign	Sphagnum Moss Peat Farm	Sphagnum Moss Peat Farm	Harrison	mulch	Cpn-9
Williams	Lingvai Peat Co.	Lingvai Peat Co.	Center	mulch	Ws-17



Doc Heinsen and Chester Below pose beside the mine shaft at Fishack Mill, June 27, 1928. Hay was being taken to mules kept in the underground gypsum mine for heavy work. Photograph first appeared in the March 29, 1973, edition of the *Port Clinton News Herald*, courtesy of Chester Below.

**NUMERICAL INDEX OF OPERATORS OF MINES
SHOWN ON 2000 MINERAL INDUSTRIES MAP OF OHIO, BY COMMODITY**

COAL ● ○

<i>Map location</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
3	Belmont	Bt-68	D-0360	Ohio Valley Coal Co.
27	Belmont	Bt-1074	D-0340	Ohio River Collieries, Inc.
150	Harrison	Hn-700	D-51, D-54, D-334, D-414, D-784	Consolidation Coal Co.
165	Jackson	Jkn-367	D-0594, D-968, D-1083, D-1167, D-2059	Waterloo Coal Co., Inc.
213	Meigs, Vinton	Ms-294	D-0355	Southern Ohio Coal Co.
228	Morgan, Noble	Ne-41	D-0678, D-1034, D-1084, D-2047	Central Ohio Coal Co.
246	Stark	Sk-208	D-1015	ENZ, Inc.
261	Tuscarawas	Ts-1646	IM-44	Belden Brick Co.
262	Tuscarawas	Ts-1727	IM-9	Kimble Clay & Limestone Co.
267	Tuscarawas	Ts-1914	D-0701	L & M Mineral Co.
300	Meigs	Ms-293	D-0354, D-0463	Southern Ohio Coal Co.
357	Vinton	Vn-172	D-0445	Waterloo Coal Co., Inc.
363	Stark	Sk-235	D-0865	Holmes Limestone Co.
411	Tuscarawas	Ts-1982	IM-621	L & M Mineral Co.
420	Vinton	Vn-184	D-0609	Waterloo Coal Co., Inc.
441	Columbiana	Ca-348	D-1002	D. & D. Mining Co.
493	Washington	Ne-1008	D-0706	B & N Coal, Inc.
514	Noble	Ne-151	D-0807	B & N Coal, Inc.
567	Belmont	Bt-1186	D-0877	Oxford Mining Co., Inc.
580	Harrison	Hn-710	D-0426	Harrison Mining Corp.
598	Tuscarawas	Ts-2019	D-0852	Kimble Clay & Limestone Co.
602	Vinton	Vn-191	D-0867, D-0957, D-1004	Waterloo Coal Co., Inc.
603	Belmont	Bt-1190	IM-1089, D-1061	Sidwell Materials, Inc.
604	Belmont	Bt-AT	D-0922	Marietta Coal Co.
625	Mahoning	Mg-608	IM-4	ESSROC Cement Corp.
627	Noble	Ne-155	D-0958	B & N Coal, Inc.
631	Stark	Sk-246	D-1090	American Landfill, Inc.
634	Tuscarawas	Ts-1939	IM-47	Belden Brick Co.
640	Tuscarawas	Ts-RM	D-0904	Kimble Clay & Limestone Co.
648	Guernsey	Gy-315	D-0951	Northshore Coal, Inc.
657	Jefferson	Jfn-823	D-0949	Sterling Mining Co.
663	Perry	Py-A	D-0931	Avis Coal Co.
667	Tuscarawas	Ts-1517	IM-46	Belden Brick Co.
683	Belmont	Bt-B	D-0998	Sidwell Materials, Inc.
696	Guernsey	Gy-318	D-1025	Valley Mining, Inc.
709	Jefferson	Jfn-831V	D-1026	Valley Mining, Inc.
723	Tuscarawas	Ts-2043	D-1047	Holmes Limestone Co.
731	Belmont	Bt-RF2	D-1062	Oxford Mining Co., Inc.
732	Belmont	Bt-VM	D-1059	Valley Mining, Inc.
736	Columbiana	Ca-997	D-1051	Commercial Minerals, Inc.
740	Coshocton	Cn-H1	D-1094	Holmes Limestone Co.
748	Harrison	Hn-759	D-1037, D-1151	Melvin Schaney
756	Jefferson	Jfn-835	D-1063	Anthony Mining Co., Inc.
758	Jefferson	Jfn-ST	D-1019	Sterling Mining Co.
760	Noble	Ne-BN	D-1038	B & N Coal, Inc.
764	Perry	Py-O	D-1086	Oxford Mining Co., Inc.
779	Stark	Sk-HCC	D-1106	Holmes Limestone Co.
783	Tuscarawas	Ts-520	IM-214	Blue Jay Enterprises of Ts. Co., Inc.
784	Tuscarawas	Ts-K4	D-1079	Kimble Clay & Limestone Co.
787	Gallia	Ga-629	D-1095	Sands Hill Coal Co., Inc.

**NUMERICAL INDEX OF OPERATORS OF MINES
SHOWN ON 2000 MINERAL INDUSTRIES MAP OF OHIO, BY COMMODITY**

COAL—Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
790	Columbiana	Ca-1003	D-0928	Buckeye Industrial Mining Co.
795	Harrison	Hn-767	D-1124	Schiappa Coal Co., Inc.
796	Harrison, Jefferson	Jfn-K	IM-1164	K.C.C.I.
797	Jackson	Jkn-CH2	IM-1302	Cedar Heights Clay Co.
799	Noble	Ne-BN2	D-1122	B & N Coal, Inc.
802	Stark	Sk-B	D-1123	Buckeye Industrial Mining Co.
806	Tuscarawas	Ts-VM	D-1125	Valley Mining, Inc.
810	Belmont	Bt-1171	D-0674	Marietta Coal Co.
811	Belmont	Bt-M3	D-1134	Marietta Coal Co.
812	Belmont	Bt-M4	D-1135	Marietta Coal Co.
814	Belmont	Bt-M6	D-1152	Marietta Coal Co.
825	Jackson	Jkn-S3	D-1137	Sands Hill Coal Co., Inc.
826	Jefferson	Jfn-FM	D-1147	F & M. Coal Co.
830	Tuscarawas	Ts-K5	D-1133	Kimble Clay & Limestone Co.
831	Stark	Sk-205	D-1144	ENZ, Inc.
832	Belmont	Bt-BE	D-1159	Bennoc, Inc.
833	Belmont	Bt-M7	D-1171	Marietta Coal Co.
835	Stark	Sk-B11 Sk	D-1162	Buckeye Industrial Mining Co.
837	Coshocton	Cn-RF7	D-1160	Oxford Mining Co., Inc
838	Harrison	Hn-C1	D-1169	Cravat Coal Co.
839	Harrison	Hn-C2	D-1170	Cravat Coal Co.
841	Holmes	Hs-H1	D-1176	Holmes Limestone Co.
843	Jackson	Jkn-S2 Jkn	D-1087	Sands Hill Coal Co., Inc.
844	Jefferson	Jfn-AN	D-1173	Anthony Mining Co., Inc.
846	Mahoning	Mg-E	IM-1103	East Fairfield Coal Co.
850	Tuscarawas	Ts-H4	D-1149	Holmes Limestone Co.
851	Athens	As-B	D-1163	Buckingham Coal Co., Inc.
852	Belmont	Bt-M8	D-1190	Marietta Coal Co.
853	Carroll	Cl-B11	D-1175	Buckeye Industrial Mining Co.
854	Carroll	Cl-M2	D-2014	Myers Mining
855	Columbiana	Ca-505	IM-13, IM-936	State Line Resources, Inc.
856	Columbiana	Ca-B1	D-2003	Buckeye Industrial Mining Co.
857	Columbiana	Ca-B15	D-1179	Buckeye Industrial Mining Co.
860	Harrison	Hn-D	D-1181	Daron Coal Co., Inc.
861	Harrison	Hn-SM	D-1186	Melvin Schaney
862	Jackson	Jkn-S4	D-2009	Sands Hill Coal Co., Inc.
863	Jefferson	Jfn-V2	D-1185	Varkony Mining Co.
864	Mahoning	Mg-T	D-1168	Thompson Bros. Mining Co.
865	Muskingum	Mum-RF1	D-1164	Oxford Mining Co., Inc
866	Noble	Ne-BN3	D-1194	B & N Coal, Inc.
867	Stark	Sk-B1	D-1192	Buckeye Industrial Mining Co.
868	Tuscarawas	Ts-K6	D-1183	Kimble Clay & Limestone Co.
869	Vinton	Vn-S2	D-1193	Sands Hill Coal Co., Inc.
870	Belmont	Bt-M9	D-2075	Marietta Coal Co.
871	Belmont	Bt-MC	D-2055	Marietta Coal Co.
872	Belmont	Bt-MC1	D-2077	Marietta Coal Co.
873	Carroll	Cl-S	D-2070	Sterling Mining Co.
874	Coshocton	Cn-HL1	D-2019	Holmes Limestone Co.
875	Gallia	Ga-SH	D-2018	Sands Hill Coal Co., Inc.
876	Jefferson	Jfn-BI	D-1180	Buckeye Industrial Mining Co.

**NUMERICAL INDEX OF OPERATORS OF MINES
SHOWN ON 2000 MINERAL INDUSTRIES MAP OF OHIO, BY COMMODITY**

COAL—Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
877	Stark	Sk-B2	D-2048	Buckeye Industrial Mining Co.
878	Stark	Sk-B3	D-2062	Buckeye Industrial Mining Co.
879	Stark	Sk-H1	D-2011	Holmes Limestone Co.
880	Tuscarawas	Ts-F	D-1189	Franklin Mineral
881	Tuscarawas	Ts-H5	D-0533	Holmes Limestone Co.
882	Tuscarawas	Ts-JM	D-2031	JM Mining & Reclamation
883	Vinton	Vn-S3	D-2058	Sands Hill Coal Co., Inc.
884	Belmont	Bt-C2	D-2028	Cravat Coal Co.
885	Belmont	Bt-OX	D-0676	Oxford Mining Co., Inc
886	Harrison	Hn-OX	D-2022	Oxford Mining Co., Inc
887	Muskingum	Mum-OX	D-1196	Oxford Mining Co., Inc
888	Tuscarawas	Ts-H6	D-1188	Kimble Clay & Limestone Co.
889	Tuscarawas	Ts-V2	D-2013	Valley Mining, Inc.

COAL-PREPARATION PLANTS ●

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
3	Belmont	Bt-936	D-0216	Marietta Coal Co.
4	Belmont	Bt-68	D-0360	Ohio Valley Coal Co.
5	Columbiana	Ca-879	D-0806	Buckeye Industrial Mining Co.
7	Coshocton	Cn-810	D-0599	Conesville Coal Preparation Co.
10	Jackson	Jkn-367	D-0285	Waterloo Coal Co., Inc.
14	Meigs	Ms-293	D-0354	Southern Ohio Coal Co.
16	Morgan	Ne-41	D-0420	Central Ohio Coal Co.
20	Tuscarawas	Ts-1938	D-0264	Central Fuel Co.
21	Tuscarawas	Ts-1942	D-0287	Holmes Limestone Co.
22	Vinton	Vn-145	D-0159	Waterloo Coal Co., Inc.
24	Vinton	Vn-641	D-0169	Sands Hill Coal Co., Inc.
30	Harrison	Hn-169	D-0424	Harrison Processing Corp.
32	Tuscarawas	Ts-HC	D-0981	Holmes Limestone Co.
33	Columbiana	Ca-505	D-0223	State Line Resources, Inc.

LIMESTONE/DOLOMITE ■

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
1	Adams	Ads-1	IM-237	Davon, Inc.
3	Allen	An-1	IM-485	Bluffton Stone Co.
5	Allen	An-3	IM-484	National Lime & Stone Co.
7	Allen	An-4	IM-491	Suever Stone Co., Inc.
9	Athens	As-533	IM-17	Waterloo Coal Co., Inc.
10	Auglaize	Ae-31	IM-744	Con-Ag, Inc.
11	Auglaize	Ae-10	IM-486	National Lime & Stone Co.
12	Belmont	Bt-716	IM-1	Ayers Limestone Quarry, Inc.
17	Clinton	Clm-1	IM-241	The Melvin Stone Co., LLC
18	Crawford	Cd-1	IM-404	National Lime & Stone Co.

**NUMERICAL INDEX OF OPERATORS OF MINES
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LIMESTONE/DOLOMITE—Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
19	Darke	Dke-1	IM-362	Martin Marietta Aggregates
20	Delaware	Del-4	IM-262	Martin Marietta Aggregates
21	Delaware	Del-5	IM-207	National Lime & Stone Co.
22	Delaware	Del-3	IM-327	Martin Marietta Aggregates
23	Delaware	Del-2	IM-299	Martin Marietta Aggregates
24	Erie	Ee-27	IM-608	Erie Blacktop, Inc.
25	Erie	Ee-11	IM-263	Rogers Group, Inc., Hanson Aggregates Midwest, Inc.
26	Erie	Ee-1	IM-310	Wagner Quarries Co.
27	Fayette	Fe-2	IM-169	Martin Marietta Aggregates
28	Fayette	Fe-1	IM-831	The Melvin Stone Co., LLC
30	Franklin	Fn-2	IM-261	Martin Marietta Aggregates
31	Franklin	Fn-53	IM-185	Martin Marietta Aggregates
32	Greene	Ge-17	IM-435	Martin Marietta Aggregates
34	Greene	Ge-9	IM-364	Southdown Inc.
38	Hardin	Hdn-2	IM-443	Hardin Quarry Co., Inc.
41	Highland	Hd-2	IM-230	Davon, Inc.
42	Highland	Hd-3	IM-253	Ohio Asphaltic Limestone Corp.
43	Highland	Hd-4	IM-406	Marshall Quarry, Inc.
44	Holmes	Hs-67	IM-3, IM-768	Holmes Limestone Co.
47	Jackson	Jkn-367	D-594, D-968, D-1083	Waterloo Coal Co., Inc.
49	Logan	Lgn-1	IM-574	Martin Marietta Aggregates
50	Logan	Lgn-15	IM-453	C. E. Duff & Son, Inc.
51	Logan	Lgn-2	IM-494	Shelly Materials, Inc.
52	Lucas	Ls-1	IM-575	Hanson Aggregates Midwest, Inc.
53	Lucas	Ls-3	IM-580	Hanson Aggregates Midwest, Inc.
54	Lucas	Ls-2	IM-503	Stoneco, Inc.
56	Mahoning	Mg-54	IM-93	Honey Creek Stone Co.
57	Mahoning	Mg-608	IM-4	ESSROC Cement Corp.
59	Marion	Mn-2	IM-423	J. M. Hamilton & Sons Co., Inc.
60	Marion	Mn-3	IM-168	National Lime & Stone Co.
61	Marion	Mn-1	IM-250	Tri-County Limestone Co.
62	Mercer	Mr-1	IM-592	Stoneco, Inc.
63	Mercer	Mr-2	IM-430	Morrow Gravel Co.
64	Miami	Mi-1	IM-382	Piqua Materials, Inc.
66	Miami	Mi-502	IM-414	Barrett Paving Materials, Inc.
67	Miami	Mi-10	IM-335	C. F. Poeppelman, Inc.
70	Montgomery	My-1	IM-374	Martin Marietta Aggregates
71	Montgomery	My-23	IM-368	Martin Marietta Aggregates
72	Montgomery	My-58	IM-330	Southdown Inc.
73	Morgan	Mon-600	D-1034	Central Ohio Coal Co.
75	Muskingum	Mum-106	IM-297	Chesterhill Stone Co.
78	Muskingum	Mum-104	IM-277	Sidwell Materials, Inc.
80	Noble	Ne-86	IM-70	Zerger's Quarry
82	Ottawa	Oa-6	IM-296	White Rock Quarry, L.P.
83	Ottawa	Oa-14	IM-320	Stoneco, Inc.
84	Ottawa	Oa-7	IM-440	Lafarge Corp.
85	Ottawa	Oa-1	IM-292	Graymont Dolime (OH) Inc., Stansley Mineral Resources
86	Paulding	Pg-7		Hanson Aggregates Midwest, Inc.
87	Paulding	Pg-1	IM-513	Lafarge Corp.
88	Paulding	Pg-2	IM-481	Stoneco, Inc.

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LIMESTONE/DOLOMITE—Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
89	Perry	Py-235	IM-515	Maxville Quarries, Inc.
91	Pike	Pke-13	IM-213	Latham Limestone, Inc.
92	Pickaway	Pky-4	IM-209	The Melvin Stone Co., LLC
95	Preble	Pre-5	IM-447	Wysong Stone Co.
98	Putnam	Pm-2	IM-570	Putnam Stone Co.
101	Sandusky	Sy-5	IM-0259	Precision Aggregates III, LLC
102	Sandusky	Sy-1	IM-537	Martin Marietta Magnesia Specialties, Inc.
103	Sandusky	Sy-4	IM-381	Millersville Lime Inc.
104	Sandusky	Sy-3	IM-282	Millersville Lime Inc.
106	Seneca	Sa-2	IM-352	Carmeuse/Maple Grove Stone Co.
107	Seneca	Sa-1	IM-347	Hanson Aggregates Midwest, Inc.
108	Seneca	Sa-3	IM-349	Hanson Aggregates Midwest, Inc.
109	Seneca	Sa-8	IM-313	North Shore Stone Quarries, Inc.
110	Shelby	Shy-17	IM-389	Miami River Stone Co.
111	Shelby	Shy-16	IM-411	Miami River Stone Co.
112	Shelby	Shy-15	IM-387	Spring Creek Corp.
117	Tuscarawas	Ts-1818	IM-9	Kimble Clay & Limestone Co.
119	Union	Un-1	IM-208	Shelly Materials, Inc.
120	Union	Un-2	IM-236	Shelly Materials, Inc.
121	Van Wert	Vt-3	IM-495	Stoneco, Inc.
122	Van Wert	Vt-7	IM-642	Ridge Township Quarry
123	Van Wert	Vt-1	IM-500	Suever Stone Co., Inc.
124	Vinton	Vn-174	D-0309	Clinton Stone, Inc.
129	Wood	Wd-5	IM-473	Custar Stone Co.
130	Wood	Wd-1	IM-548	MacRitchie Materials, Inc.
131	Wood	Wd-6	IM-480	Stoneco, Inc.
132	Wood	Wd-11	IM-475	Stoneco, Inc.
133	Wyandot	Wt-3	IM-298	McCarthy Stone Quarry, Olen Corp.
134	Wyandot	Wt-1	IM-405	National Lime & Stone Co.
135	Wyandot	Wt-8	IM-273	Wyandot Dolomite, Inc.
147	Guernsey, Muskingum	Gy-309	IM-1030	King Limestone, Inc.
148	Vinton	Vn-190	D-0761	Quality Stone Co.
149	Hancock	Hk-7	IM-1002	National Lime & Stone Co.
152	Belmont	Bt-1190	IM-1089	Sidwell Materials, Inc.
154	Franklin	Fn-43	IM-188	Olen Corp.
155	Greene	Ge-45	IM-364	Martin Marietta Aggregates
156	Hardin	Hdn-S	IM-1034	C. E. Duff & Son, Inc.
159	Lawrence	Le-B	IM-1188, D-0746	Belville Mining Co., Inc.
160	Lucas	Ls-12	IM-953	Barrett Paving Materials, Inc.
161	Mahoning	Mg-629	IM-1008	Blum Mining Co.
162	Mahoning	Mg-EM	IM-1056	ESSROC Cement Corp.
163	Monroe	Me-C	IM-1088	Christman Quarry
164	Monroe	Me-509	IM-1094	Rubel Quarry, Inc.
167	Noble	Ne-S	IM-913	Sharon Stone Co.
168	Perry	Py-343	IM-1061	Maxville Quarries, Inc.
170	Tuscarawas	Ts-1982	IM-621	L & M Mineral Co.
171	Mahoning	Mg-631	IM-1103	East Fairfield Coal Co.
173	Adams	Ads-H	IM-805	Waterland Trucking Service, Inc.
174	Erie	Ee-K	IM-727	Kellstone, Inc.
175	Highland	Hd-M	IM-1170	Martin Marietta Aggregates

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LIMESTONE/DOLOMITE—Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
176	Jefferson	Jfn-K	IM-1164	K.C.C.I.
177	Miami	Mi-BPM	IM-1169	Barrett Paving Materials, Inc.
178	Montgomery	My-Q	IM-860	Quarry Trails
179	Noble	Ne-B	IM-897	B & N Coal, Inc.
180	Ottawa	Oa-18	IM-635	Fox Stone Products, Inc.
181	Tuscarawas	Ts-B	IM-49	Belden Brick Co.
182	Vinton	Vn-193		Quality Stone Co.
183	Wood	Wd-14	IM-1157	Precision Aggregate, Inc.
184	Brown	Bn-EC	IM-1195	Davon, Inc.
185	Muskingum	Mum-907	IM-1200	Pleasant Valley Limestone
186	Muskingum	Mum-SB	IM-1212, IM-1269	Sidwell Materials, Inc.
187	Tuscarawas	Ts-1517	IM-46	Belden Brick Co.
188	Lucas	Ls-13	IM-492	Seaway Sand & Stone, Inc.
191	Tuscarawas	Ts-BB	IM-1221	Belden Brick Co.
192	Columbiana	Ca-BIM	IM-1271	Buckeye Industrial Mining Co.
193	Hamilton	Hmn-72	IM-1264	Rumpke Mountain Mining Co.
194	Noble	Ne-K	IM-1254	King Quarries, Inc.
195	Belmont	Bt-N	IM-1283	Sidwell Materials, Inc.
196	Hancock	Hk-A	IM-1299	Stanley Mineral Resources
197	Noble	Ne-K1	IM-1292	King Quarries, Inc.
198	Ottawa	Oa-BC	IM-1288	Baycliffs Corp.
199	Ross	Rs-MC1	IM-1298	The Melvin Stone Co., LLC
200	Tuscarawas	Ts-BJ	IM-1285	Blue Jay Enterprises of Ts Co., Inc.
202	Greene	Ge-8	IM-364	Southdown Inc.
203	Muskingum	Mum-SD	IM-1313	Sidco Development, Inc.
205	Stark	Sk-208	D-1015	ENZ, Inc.
206	Tuscarawas	Ts-1939	IM-47	Belden Brick Co.
207	Tuscarawas	Ts-520	IM-214	Blue Jay Enterprises of Ts. Co., Inc.
209	Tuscarawas	Ts-1646	IM-44	Belden Brick Co.
210	Carroll	Cl-TC	IM-1319	TCNC Industries, Inc.
211	Hamilton	Hmn-GR	IM-1363	Gray Road Fill, Inc.
212	Mahoning	Mg-L	IM-1353	Lafarge Corp.
213	Shelby	Shy-SC1	IM-2017	Spring Creek Corp.
214	Tuscarawas	Ts-S2	IM-1356	Sidco Development, Inc.
215	Wood	Wd-S	IM-2005	Mark Schaffer Excavating & Trucking, Inc.
216	Clark	Ck-501	IM-340	Demmy Construction, Inc.
217	Greene	Ge-M	IM-2052	The Melvin Stone Co., LLC
218	Hardin	Hdn-N	IM-2072	National Lime & Stone Co.
219	Highland	Hd-D	IM-2071	Davon, Inc.
220	Highland	Hd-O	IM-2056	Ohio Asphaltic Limestone Corp.
221	Highland	Hd-O1	IM-2068	Ohio Asphaltic Limestone Corp.
222	Hocking	Hg-M	IM-2057	Maxville Quarries, Inc.
223	Muskingum	Mum-O	IM-2030	Oxford Mining Co., Inc.
224	Shelby	Shy-SS	IM-438	Miami River Stone Co.
225	Tuscarawas	Sk-205	D-1144	ENZ, Inc.

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SAND AND GRAVEL DREDGING OPERATION △

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
1	Lake Erie	Ee-dredge		Erie Sand & Gravel Co.
2	Lake Erie	Lke-dredge		Osborne Materials Co.

SAND AND GRAVEL ▲

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
2	Allen	An-15	IM-721	Ward Materials, Inc.
6	Ashland	Ald-9	IM-745	Bartley & Bolin Excavating
8	Ashland	Ald-7	IM-392	Young's Sand & Gravel Co.
9	Ashtabula	Asa-10	IM-198	Frye Sand & Gravel, Inc.
10	Ashtabula	Asa-14	IM-563	Janson's Soil Service, Inc.
14	Ashtabula	Asa-12	IM-1130	Nelson Sand & Gravel, Inc.
15	Ashtabula	Asa-15	IM-783	R. W. Sidley, Inc.
19	Athens	As-588	IM-630	Black Top Contracting, Inc.
21	Athens	As-1161	IM-97	Lake Hope Asphalt, Inc.
23	Auglaize	Ae-23	IM-508	Joseph Sand & Gravel, Inc.
24	Auglaize	Ae-30	IM-598	National Lime & Stone Co.
25	Auglaize	Ae-16	IM-595	Quality Ready Mix, Inc.
26	Belmont	Bt-74	IM-288	Tri-State Asphalt Products
28	Butler	Br-36	IM-649	Bill D. Colwell
29	Butler	Br-5	IM-153	Martin Marietta Aggregates
30	Butler	Br-35	IM-200	Martin Marietta Aggregates
31	Butler	Br-48	IM-562	Broshear Contractors, Inc.
32	Butler	Br-50	IM-739	Dingledine Basic Materials, Inc.
33	Butler	Br-14	IM-147	Martin Marietta Aggregates
34	Butler	Br-29	IM-149	Martin Marietta Aggregates
37	Butler	Br-40	IM-493	Gaston Bowling, Inc.
38	Butler	Br-52	IM-814	Shamrock Materials, Inc.
39	Butler	Br-15	IM-316	Mecco, Inc.
41	Butler	Br-6	IM-177	Moraine Materials Co., Inc.
42	Butler	Br-3	IM-719	Roy B. Schweitzer
44	Butler	Br-47	IM-111	Watson Gravel, Inc.
45	Butler	Br-38	IM-218	Welch Sand & Gravel, Inc.
47	Carroll	Cl-204	IM-554	Oneida Sand & Gravel, Inc.
48	Champaign	Cpn-1	IM-371	Morrow Gravel Co.
49	Champaign	Cpn-21	IM-616	D & W Sand & Gravel
50	Champaign	Cpn-22	IM-889	Mechanicsburg Sand & Gravel, Inc.
51	Champaign	Cpn-20	IM-482	Moore's Excavating Co.
52	Clark	Ck-13	IM-366	Martin Marietta Aggregates
54	Clark	Ck-502	IM-375	Demmy Sand & Gravel
57	Clark	Ck-3	IM-463	Enon Washed Sand & Gravel Co.
58	Clark	Ck-25	IM-358	Shelly Materials, Inc.
59	Clermont	Ct-9	IM-526	Barrett Paving Materials, Inc.
61	Clermont	Ct-7	IM-432	Kipp's Gravel Co., Inc.
68	Columbiana	Ca-881	IM-611	X L Sand & Gravel
69	Coshocton	Cn-718	IM-227	Apache Aggregate & Paving Co.

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SAND AND GRAVEL—Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
70	Coshocton	Cn-783	IM-717	Apache Aggregate & Paving Co.
71	Coshocton	Cn-694	IM-293	Shelly Materials, Inc.
72	Coshocton	Cn-624	IM-243	Shady Bend Sand & Gravel
80	Darke	Dke-4	IM-433	Foureman's Sand & Gravel, Inc.
81	Darke	Dke-10	IM-326	Hollinger Excavating
82	Defiance	De-2	IM-765	Hillsdale Sand & Gravel, Inc.
83	Erie	Ee-18	IM-676	Erie Materials, Inc.
84	Erie	Ee-29		Jarrett Sand Co.
92	Fairfield	Fd-13	IM-848, IM-1331	Shelly Materials, Inc.
94	Franklin	Fn-36	IM-302	Agg Rok Materials
95	Franklin	Fn-6	IM-185	Martin Marietta Aggregates
96	Franklin	Fn-23	IM-183	Martin Marietta Aggregates
97	Franklin	Fn-14	IM-832	D.B.M. Materials, LLC
98	Franklin	Fn-52	IM-191	JP Sand & Gravel Co.
100	Franklin	Fn-11	IM-234	Mason's Sand & Gravel Co./George C. Smith
101	Franklin	Fn-24	IM-266	S & S Aggregate, Inc.
102	Franklin	Fn-43	IM-188	Olen Corp.
108	Geauga	Gea-29	IM-215	Haueter Sand & Gravel, Inc.
109	Geauga	Gea-35	IM-321	Teague Gravel Co., Inc.
110	Greene	Ge-33	IM-379	Martin Marietta Aggregates
112	Greene	Ge-4	IM-394	Hilltop Basic Resources, Inc.
115	Greene	Ge-36	IM-305	Phillips Sand & Gravel
117	Greene	Ge-10	IM-518	Xenia Sand, Gravel, & Asphalt Co.
118	Hamilton	Hmn-37	IM-170	Martin Marietta Aggregates
120	Hamilton	Hmn-54	IM-710	Ashcraft Sand & Gravel, Inc.
121	Hamilton	Hmn-44	IM-120	Crosby Gravel
123	Hamilton	Hmn-50	IM-205, IM-1139	James Bunnell, Inc.
124	Hamilton	Hmn-59	IM-812, IM-815	James Bunnell, Inc.
126	Hamilton	Hmn-3	IM-148, IM-137, IM-821	Martin Marietta Aggregates
127	Hamilton	Hmn-5	IM-148	Martin Marietta Aggregates
130	Hamilton	Hmn-64	IM-137	Watson Gravel, Inc.
131	Hamilton	Hmn-68	IM-747	Watson Gravel, Inc.
132	Hamilton	Hmn-46	IM-396	Eaton Sand & Gravel Co.
134	Hamilton	Hmn-71	IM-771	Powell Gravel & Topsoil, Inc.
135	Hamilton	Hmn-17	IM-295	Harrison Sand & Gravel Co.
137	Hamilton	Hmn-67	IM-529	R. L., Ltd.
139	Hamilton	Hmn-10	IM-226	Rack Sand, Inc.
141	Hamilton	Hmn-28	IM-353	Roy B. Schweitzer, dba The Gravel Co.
142	Hamilton	Hmn-60	IM-761	Watson Gravel, Inc.
143	Hamilton	Hmn-42	IM-823	Welch Sand & Gravel, Inc.
144	Hamilton	Hmn-48	IM-220	Welch Sand & Gravel, Inc.
151	Hocking	Hg-262	IM-41	Hocking Valley Concrete, Inc.
152	Hocking	Hg-301	IM-458	Muskingum River Gravel Co.
153	Holmes	Hs-82	IM-707	Menuet Bros. Sand & Gravel, Inc.
154	Holmes	Hs-511	IM-1048, IM-1240	Feikert Sand & Gravel, Inc.
161	Knox	Kx-16	IM-793	Olen Corp.
162	Knox	Kx-5	IM-884, IM-1307	Small's Sand & Gravel, Inc.
163	Knox	Kx-3	IM-300	United Aggregates, Inc.
165	Knox	Kx-15	IM-967	Small's Sand & Gravel, Inc.
166	Lake	Lke-7	IM-162	R. W. Sidley, Inc.

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<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
167	Lawrence	Le-430	IM-844	B & L Sand Co.
170	Lawrence	Le-426	IM-856	Burlington Sand & Gravel Co.
174	Licking	Lg-2	IM-184	Doug Mill
176	Licking	Lg-31	IM-246	Olen Corp.
179	Licking	Lg-10	IM-217	Van Wey Sand & Gravel, Inc.
182	Logan	Lgn-31	IM-454	C. E. Duff & Son, Inc.
183	Logan	Lgn-39	IM-887	C. E. Duff & Son, Inc.
189	Logan	Lgn-6	IM-459	Neer's Sand & Gravel
191	Lorain	Ln-12	IM-731	Guy Schieve
195	Lucas	Ls-13	IM-492	Seaway Sand & Stone, Inc.
196	Mahoning	Mg-632	IM-808	Solomon's Mines, Inc.
197	Marion	Mn-16	IM-171	Fleming Construction Co., Inc.
198	Marion	Mn-4	IM-290	Martin Marietta Aggregates
200	Marion	Mn-10	IM-196	Shelly Materials, Inc.
203	Medina	Ma-20	IM-448	Baker Sand, Inc.
206	Medina	Ma-22	IM-425, IM-442, IM-650, IM-651	Seville Sand & Gravel, Inc.
209	Meigs	Ms-205	IM-30	Martin Marietta Aggregates
211	Meigs	Ms-301	IM-619	Meigs County Commissioners
212	Meigs	Ms-298	IM-32	Shelly Materials, Inc.
217	Miami	Mi-501		New Carlisle Sand & Gravel Co.
219	Miami	Mi-3	IM-462, IM-658	Martin Marietta Aggregates
221	Miami	Mi-9	IM-408	Wise Gravel
222	Miami	Mi-4	IM-472	Fenner Sand & Gravel, Inc.
224	Montgomery	My-66	IM-677	Martin Marietta Aggregates
225	Montgomery	My-65	IM-594	Broadway Sand & Gravel, Inc.
232	Montgomery	My-19	IM-401, IM-916	Hilltop Basic Resources, Inc.
233	Montgomery	My-52	IM-348	Miller Bros. Gravel, Inc.
236	Montgomery	My-55	IM-571	Taylorville Rd. Hardfill
238	Montgomery	My-61	IM-468	Tipp Stone Co., Inc.
239	Montgomery	My-41	IM-360	Moraine Materials Co., Inc.
240	Morgan	Mon-588	IM-35	Chesterhill Stone Co.
242	Morrow	Mw-10	IM-258	Chesterville Sand & Gravel Co., Inc.
244	Muskingum	Mum-799	IM-317, IM-264	Shelly Materials, Inc.
247	Muskingum	Mum-228	IM-421	Muskingum River Gravel Co.
248	Muskingum	Mum-216	IM-689	James Bros., Inc.
251	Pickaway	Pky-1	IM-428	Six-B, Inc.
252	Pike	Pke-26	IM-142	Valley Materials Co.
254	Pike	Pke-30	IM-786	South Central Sand & Gravel
255	Pike	Pke-24	IM-222	Davon, Inc.
256	Portage	Pe-50	IM-96	Beck Sand & Gravel, Inc.
257	Portage	Pe-15	IM-104	Muskingum River Gravel Co.
258	Portage	Pe-9	IM-119	Oscar Brugmann Sand & Gravel, Inc.
259	Portage	Pe-17	IM-123	Charlestown Sand & Gravel, Inc.
260	Portage	Pe-84	IM-868	Twinsburg Development Corp.
261	Portage	Pe-45	IM-139	R.A. Cruise Sand & Gravel, Inc.
262	Portage	Pe-56	IM-127	Hilltop Aggregate, Inc.
264	Portage	Pe-10	IM-138	Hugo Sand Co.
265	Portage	Pe-63	IM-82	Jefferson Materials Co.
268	Portage	Pe-40	IM-190	Lakeside Sand & Gravel Co.
272	Portage	Pe-39	IM-1078	Miller Sand & Gravel, Inc.

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<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
273	Portage	Pe-85	IM-700	Rockwell Sand & Gravel, Inc.
274	Portage	Pe-60	IM-78	Schloss Materials Co.
275	Portage	Pe-18	IM-193	Sober Sand & Gravel Co.
276	Portage	Pe-36	IM-90	Solon Excavators Sand & Gravel, Inc.
277	Portage	Pe-68	IM-660, IM-1047, IM-1107, IM-1124	Lafarge Corp.
280	Portage	Pe-64	IM-1017	Rainbow Sand & Gravel, Inc.
281	Portage	Pe-59	IM-210	S & S Aggregate, Inc.
282	Portage	Pe-67	IM-202	S & S Aggregate, Inc.
284	Preble	Pre-7	IM-306	Southern Ohio Aggregates, Inc.
285	Preble	Pre-4	IM-477	Wysong Gravel Co.
286	Preble	Pre-6	IM-478	Wysong Gravel Co.
287	Richland	Rd-4	IM-279, IM-1255	D. H. Bowman & Sons, Inc.
289	Richland	Rd-18	IM-670	Ganges Gravel Co.
290	Richland	Rd-14	IM-436	John L. Garber Materials, Inc.
292	Richland	Rd-5	IM-470	S & S Aggregate, Inc.
303	Scioto	So-98	IM-474	E. H. Blair Construction Co.
304	Scioto	So-83	IM-211	Cunningham Asphalt Paving, Inc.
305	Scioto	So-78		E. H. Schilling & Sons, Inc.
306	Scioto	So-79	IM-221	ATS Enterprises
311	Shelby	Shy-17	IM-389	Miami River Stone Co.
312	Shelby	Shy-13	IM-412	Miami River Stone Co.
314	Shelby	Shy-11	IM-743	Spring Creek Corp.
315	Shelby	Shy-18	IM-388	Spring Creek Corp.
316	Stark	Sk-N	IM-156	Northern Ohio Paving Co.
318	Stark	Sk-681	IM-164	Central-Allied Enterprises, Inc.
319	Stark	Sk-689	IM-173	Central-Allied Enterprises, Inc.
320	Stark	Sk-694	IM-858	A. J. Diana Sons, Inc.
325	Stark	Sk-607	IM-102	Central-Allied Enterprises, Inc.
326	Stark	Sk-165	IM-192	Oster Sand & Gravel, Inc.
327	Summit	St-52	IM-900	Flesher Sand & Gravel, Inc.
333	Summit	St-24	IM-239	Riverside Sand & Gravel Co., Inc.
336	Summit	St-44	IM-178	S & S Aggregate, Inc.
340	Trumbull	Tl-12	IM-131	Samco, Inc.
343	Tuscarawas	Ts-1826	IM-88	Soehnl Bros. Sand & Gravel, Inc.
344	Tuscarawas	Ts-1771	IM-77	Spring Industries, Inc.
346	Tuscarawas	Ts-111	IM-55	Stewart & Reichman, Inc.
347	Tuscarawas	Ts-69	IM-51	Stocker Sand & Gravel Co.
348	Tuscarawas	Ts-125	IM-50	Stocker Sand & Gravel Co.
349	Warren	Wan-38	IM-615	Martin Marietta Aggregates
352	Warren	Wan-41	IM-629	Carl E. Oeder & Sons Sand & Gravel
356	Warren	Wan-47	IM-846	C. & S. Contractors, Inc.
363	Warren	Wan-10	IM-465	Watson Gravel, Inc.
364	Washington	Wn-55	IM-669	Beverly Slag Co.
365	Washington	Wn-508	IM-57	Briggs Sand & Gravel, Inc.
367	Washington	Wn-38	IM-701	Muskingum River Gravel Co.
369	Washington	Wn-510	IM-25	Trout Sand & Gravel Co.
372	Wayne	We-11	IM-547	Prairie Lane Sand & Gravel Co.
373	Wayne	We-7	IM-471	Rupp Construction, Inc.
374	Wayne	We-15	IM-398	Zollinger Sand & Gravel Co.
375	Williams	Ws-6	IM-497	Stoneco, Inc.

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<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
376	Williams	Ws-9	IM-498	Stoneco, Inc.
377	Williams	Ws-11	IM-509, IM-661	Weber Sand & Gravel, Inc.
378	Williams	Ws-14	IM-614	Dennis Winzeler
379	Wyandot	Wt-4	IM-520	Precision Aggregate, Inc.
380	Wyandot	Wt-15	IM-376, IM-551	National Lime & Stone Co.
382	Wyandot	Wt-17	IM-604	Kirby's Sand & Gravel, Inc.
385	Clark	Ck-501	IM-340	Demmy Construction, Inc.
386	Stark	Sk-203	IM-654	American Sand & Gravel, Inc.
387	Portage	Pe-95	IM-212	American Sand & Gravel, Inc.
389	Tuscarawas	Ts-1976	IM-942, IM-1235	Goshen Sand & Gravel
390	Miami	Mi-T	IM-696	Lloyd B. Fry
391	Warren	Wan-B	IM-679	Little Miami Sand & Gravel
395	Scioto	So-100	IM-950	Davon, Inc.
401	Fairfield	Fd-14	IM-933	Paul D. Beery Trucking Co.
403	Greene	Ge-40	IM-923	R.J. Martin Service & Excavating
404	Greene	Ge-42	IM-954	Martin Marietta Aggregates
405	Greene	Ge-32	IM-400	Martin Marietta Aggregates
407	Hamilton	Hmn-69	IM-969	Watson Gravel, Inc.
408	Knox	Kx-17	IM-968	Small's Sand & Gravel, Inc.
409	Richland	Rd-20	IM-617	Bartley & Bolin Excavating
412	Ashland	Ald-15	IM-944	Young's Sand & Gravel Co.
413	Ashtabula	Asa-18	IM-949	Joe Simak & Sons Trucking, Inc.
415	Geauga	Gea-9	IM-132	Soltis Sand & Gravel
416	Holmes	Hs-96	IM-997	Spring Run Gravel
417	Huron	Hrn-16	IM-975	Erie Blacktop, Inc.
419	Licking	Lg-504	IM-991	Gary Roberts Excavating
420	Logan	Lgn-36	IM-1007	C. E. Duff & Son, Inc.
423	Marion	Mn-19	IM-990	Fleming Construction Co., Inc.
424	Monroe	Me-508	IM-1000	Ohio-West Virginia Excavation
427	Summit	St-54	IM-934	R. & S., Inc.
428	Tuscarawas	Ts-2001	IM-1004	Newton Asphalt Paving, Inc.
429	Warren	Wan-46	IM-842	Little Miami Sand & Gravel
430	Warren	Wan-50	IM-1006	L & I Natural Resources, Inc.
432	Washington	Wn-54	IM-383	Atlas Towing Co.
435	Stark	Sk-173	IM-879	Allied Corp., Inc.
437	Clark	Ck-7	IM-449	City of Springfield
438	Coshocton	Cn-828	IM-1026	William Albert, Inc.
440	Gallia	Ga-626	IM-1046	Cremeans Concrete & Supply Co., Inc.
441	Greene	Ge-38	IM-333	Martin Marietta Aggregates
444	Logan	Lgn-12	IM-1071	C. E. Duff & Son, Inc.
446	Miami	Mi-12	IM-467	Tipp Stone Co., Inc.
447	Miami	Mi-504	IM-1032	Shelly Materials, Inc.
448	Muskingum	Mum-262	IM-422	Muskingum River Gravel Co.
451	Portage	Pe-89	IM-1142	Green Oaks Potting Products, Inc.
452	Ross	Rs-M	IM-114	Muskingum River Gravel Co.
453	Stark	Sk-241	IM-582	Lafarge Corp.
455	Stark	Sk-243	IM-908	American Sand & Gravel, Inc.
458	Athens	As-595	IM-1083	Cochran Transportation Services, Inc.
459	Athens	As-W	IM-979	Olen Corp.
460	Butler	Br-S	IM-1053	Southern Ohio Aggregates, Inc.

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461	Clark	Ck-28	IM-1100	Barrett Paving Materials, Inc.
463	Columbiana	Ca-982	IM-1108	Leetonia Sand & Gravel Co., Inc.
465	Franklin	Fn-58	IM-1023	Olen Corp.
466	Gallia	Ga-O	IM-1028	Ours Sand & Gravel
467	Hamilton	Hmn-AS	IM-1106	Allgeier & Son, Inc.
468	Hamilton	Hmn-D	IM-1079	Martin Marietta Aggregates
470	Holmes	Hs-J	IM-1043	S & S Transport, Inc.
472	Lucas	Ls-G	IM-1090	H.T. Griffin Excavating, Inc.
474	Madison	Mdn-11	IM-1063	Tuffco Sand & Gravel, Inc.
475	Mahoning	Mg-630	IM-1091	Wallace Road Sand & Gravel
476	Mahoning	Mg-629	IM-1008	Blum Mining Co.
480	Pickaway	Pky-H	IM-1039	William A. Hoffman, Jr.
481	Pickaway	Pky-R	IM-993	The Melvin Stone Co., LLC
482	Portage	Pe-61	IM-1064	Red Brush Peat Co.
483	Portage	Pe-92	IM-522	Don Wartko Construction, Inc.
488	Preble	Pre-9	IM-1095	Loxley Aggregates, Inc.
490	Ross	Rs-27	IM-1098	Shelly Materials, Inc.
491	Ross	Rs-H	IM-1052	Haubeil & Sons Asphalt & Materials, Inc.
493	Shelby	Shy-S	IM-1005	Sidney Sand & Gravel Co.
494	Shelby	Shy-SC	IM-1018	Spring Creek Corp.
495	Stark	Sk-M	IM-1031	Massillon Materials, Inc.
496	Summit	St-55	IM-589	Alden Sand & Gravel Co.
500	Tuscarawas	Ts-2018	IM-1076	JBM Ltd.
501	Warren	Wan-M	IM-728, IM-1065	Morrow Gravel Co.
502	Warren	Wan-M1	IM-1051	Morrow Gravel Co.
503	Warren	Wan-M2	IM-837	Morrow Gravel Co.
504	Washington	Wn-1007	IM-1042	Mark Williams Blacktop Co., Inc.
506	Williams	Ws-T	IM-1022	Stoneco, Inc.
508	Ashland	Ald-G	IM-1121	Joyce A. Good
509	Ashland	Ald-16	IM-1120	Bartley & Bolin Excavating
510	Ashtabula	Asa-N	IM-1109	Nelson Sand & Gravel, Inc.
517	Geauga	Gea-N	IM-1123	Newbury Sand & Gravel
518	Geauga	Gea-TK	IM-902	T & K Kuhnle Co.
520	Hamilton	Hmn-C	IM-1132	Allgeier & Son, Inc.
521	Hamilton	Hmn-AS1	IM-797	Allgeier & Son, Inc.
523	Hocking	Hg-329	IM-1112	Kilbarger Construction, Inc.
528	Portage	Pe-SSC	IM-318	Sunshine Sand Co.
529	Portage	Pe-96	IM-792	Don's Dozer Service, Inc.
530	Ross	Rs-R	IM-1143	Six-B, Inc.
533	Washington	Wn-1008	IM-1111	Grimes Excavating
534	Washington	Wn-1009	IM-525	Mark Williams Blacktop Co., Inc.
535	Wayne	We-23	IM-1136	Buckeye Excavating Development, Inc.
538	Columbiana	Ca-993	IM-1180	Willowbrook
539	Columbiana	Ca-351	IM-634	Inland South Aggregates
541	Fairfield	Fd-16	IM-1156	James E. Downard
544	Gallia	Ga-J	IM-1145	Jaymar, Inc.
545	Geauga	Gea-H	IM-510	Haueter Sand & Gravel, Inc.
546	Greene	Ge-46	IM-1149	Don Thompson Excavating, Inc.
547	Greene	Ge-R	IM-829	Richards Service Garage
548	Greene	Ge-47	IM-751	M.J. Coates Construction Co., Inc.

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<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
549	Greene	Ge-W	IM-645	Joann O. Weddle
550	Greene	Ge-G	IM-655	M. J. Coates Construction Co., Inc.
551	Hamilton	Hmn-S	IM-746	Southern Ohio Aggregates, Inc.
552	Hamilton	Hmn-SO	IM-720	Southern Ohio Aggregates, Inc.
553	Hardin	Hdn-H	IM-864	Norman Harpster
558	Medina	Ma-23	IM-1177	Baker Sand, Inc.
559	Meigs	Ms-L	IM-1159	Jaymar, Inc.
560	Meigs	Ms-308	IM-1174	Jaymar, Inc.
561	Montgomery	My-CW	IM-878	Carter & Carter, Inc.
562	Montgomery	My-R	IM-539	John P. Raisch, Inc.
565	Pickaway	Pky-W	IM-1176	Gene T. Wilson
568	Portage	Pe-101	IM-1154	D & K Materials, Inc.
569	Portage	Pe-SM	IM-499	Schloss Materials Co.
570	Portage	Pe-L	IM-154	Lucky Sand & Gravel Co.
571	Preble	Pre-AAC	IM-779	U.S. Aggregates
573	Ross	Rs-E	IM-1168	David E. Edgington
575	Ross	Rs-P	IM-122	Mark E. Scott
576	Scioto	So-B	IM-705	Boone Coleman Construction, Inc.
577	Shelby	Shy-SS	IM-438	Miami River Stone Co.
578	Stark	Sk-MW	IM-1171	Central-Allied Enterprises, Inc.
579	Stark	Sk-W	IM-867	Ralph C. Wagner & Sons
581	Stark	Sk-R	IM-697	Oster Sand & Gravel, Inc.
582	Stark	Sk-SI	IM-588	Spring Industries, Inc.
583	Summit	St-50	IM-722	A-1 All Ohio Sand & Gravel Co.
584	Trumbull	Tl-16	IM-1158	Nick's Trucking
586	Tuscarawas	Ts-2036	IM-1155	Oster Sand & Gravel, Inc.
588	Tuscarawas	Ts-SI	IM-569	L & M Mineral Co.
589	Warren	Wan-7	IM-151	Embro, Inc.
590	Washington	Wn-1010	IM-1163	M & J Sand & Gravel, Inc.
591	Wyandot	Wt-K	IM-943	Kirby's Sand & Gravel, Inc.
593	Ashtabula	Asa-20	IM-1198	Kinsman Materials, LTD
595	Cuyahoga	Cya-42	IM-686	Boyas Excavating, Inc.
596	Hocking	Hg-G	IM-1201	Good Builders, Inc.
597	Lake	Lke-C	IM-1215	Cashen, Inc.
598	Lake	Lke-D	IM-1187	DeMila Sand & Gravel, Inc.
600	Licking	Lg-W	IM-1213	Eagle Material
602	Mahoning	Mg-631	IM-1103	East Fairfield Coal Co.
605	Portage	Pe-102	IM-1184	GANS Ltd.
606	Ross	Rs-T	IM-1189	Tackett Builders
607	Stark	Sk-BE	IM-1202	Beaver Excavating, Inc.
608	Stark	Sk-HS	IM-1193	Heiser Sand & Gravel Corp.
609	Stark	Sk-HS1	IM-1203	Heiser Sand & Gravel Corp.
610	Stark	Sk-1017	IM-1186	National Aggregates, Inc.
611	Trumbull	Tl-C	IM-1190	Center West Enterprise, Inc.
612	Tuscarawas	Ts-A	IM-1218	Acme Sand & Gravel
613	Wayne	We-24	IM-1211	E. A. Construction, Inc.
615	Portage	Pe-98	IM-1219, IM-1231	Johnson Road Sand & Gravel
616	Ashland	Ald-Y	IM-1216	Young's Sand & Gravel Co.
617	Ashtabula	Asa-21	IM-1239	Sunrise Sand & Gravel
619	Champaign	Cpn-25	IM-1227	Moore's Excavating Co.

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<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
620	Clark	Ck-29	IM-1233	Moore's Excavating Co.
622	Fulton	Ftn-M	IM-1246	Al Mackey Enterprises, Inc.
623	Geauga	Gea-43	IM-1230	Solon Excavators Sand & Gravel, Inc.
625	Lake	Lke-CIR	IM-1243	C.I.R., Inc.
627	Pickaway	Pky-C	IM-1223	George J. Igel & Co., Inc.
628	Portage	Pe-OB	IM-1241	Oscar Brugmann Sand & Gravel, Inc.
631	Stark	Sk-CA	IM-1234	Central-Allied Enterprises, Inc.
633	Williams	Ws-21	IM-1225	Thiel Construction Co.
634	Williams	Ws-22	IM-1222	Heer Excavating, Inc.
635	Ashtabula	Asa-C	IM-1278	Clemson Excavating, Inc.
636	Columbiana	Ca-S	IM-1258	Solomon's Mines, Inc.
637	Erie	Ee-27	IM-608	Erie Blacktop, Inc.
639	Fulton	Ftn-M1	IM-1275	Al Mackey Enterprises, Inc.
640	Hamilton	Hmn-ARH	IM-1273	Watson Gravel, Inc.
641	Hamilton	Hmn-G	IM-1270	Golsch Construction, Inc.
642	Hamilton	Hmn-JC	IM-1267	Joe E. Carter
646	Lucas	Ls-M	IM-1261	Al Mackey Enterprises, Inc.
647	Morgan	Mon-L	IM-1266	Link Trucking Co., Inc.
648	Pickaway	Fn-C	IM-1265	Complete Resources Co.
650	Ashtabula	Asa-F	IM-1289	Frye Sand & Gravel, Inc.
651	Ashtabula	Asa-M	IM-1301	Mathews Sand & Gravel
653	Columbiana	Ca-W	IM-1279	Carl Walter
654	Fulton	Ftn-BL1	IM-1282	B & L Excavating
655	Fulton	Ftn-M2	IM-1294	Al Mackey Enterprises, Inc.
656	Highland	Hd-L	IM-1297	LaMar Sand & Fill, Ltd.
657	Hocking	Hg-HV	IM-1284	Hocking Valley Mulch
658	Licking	Lg-S	IM-1281	Redskin Transport LLC
661	Portage	Pe-LS	IM-1293	Lakeside Sand & Gravel Co.
663	Scioto	So-BT	IM-1286	Big T Mining
664	Scioto	So-DGM	IM-1280	D.G.M., Inc.
665	Williams	Ws-N	IM-1291	Andy Nixon Contractors, Inc.
666	Wood	Wd-14	IM-1157	Precision Aggregate, Inc.
667	Butler	Br-57		Watson Gravel, Inc.
668	Coshocton	Cn-C	IM-1311	County Line Concrete & Supply Co.
669	Logan	Lgn-B	IM-1309	Boyd Excavating
670	Holmes	Hs-C	IM-1303	Craigton Shale Co.
671	Pickaway	Pky-DC	IM-1316	Darby Creek Excavating, Inc.
672	Fulton	Ftn-SI	IM-1308	Sandco, Inc.
673	Portage	Pe-B1	IM-1296	Blue Stone Sand & Gravel, Inc.
674	Portage	Pe-B2	IM-1305	Blue Stone Sand & Gravel, Inc.
675	Washington	Wn-C	IM-1315	Chesterhill Stone Co.
676	Portage	Pe-M	IM-1312	Mills Rock, Sand, & Soil, Inc.
677	Ashtabula	Asa-ST	IM-1349	Joe Simak & Sons Trucking, Inc.
678	Fulton	Ftn-SA	IM-1335	Sandman Trucking, Inc.
679	Hocking	Hg-HA	IM-1320	Harden Agricultural Lime & Reclam. Svs., Inc.
680	Hamilton	Hmn-P	IM-1333	Powell Gravel & Topsoil, Inc.
681	Lucas	Ls-AM	IM-1318	Al Mackey Enterprises, Inc.
682	Lucas	Ls-GB	IM-1323	Gary L. Brown
683	Lucas	Ls-ME	IM-1345	Moon Enterprises, Inc.
685	Stark	Sk-M1	IM-1332	Massillon Materials, Inc.

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686	Summit	St-DC	IM-1346	Donald A. Coy
687	Tuscarawas	Ts-MM	IM-1324	Massillon Materials, Inc.
688	Warren	Wan-MV	IM-1329	Miami View Mining Co., Ltd.
689	Portage	Pe-BA	IM-1327	Ballentine Excavation Co.
690	Fulton	Ftn-H	IM-1336	Hunter Land Development
691	Tuscarawas	Ts-1982	IM-621	L & M Mineral Co.
692	Huron	Hrn-M	IM-1338	Marta Track Constructors, Inc.
693	Pike	Pke-M	IM-1325	Morrow Gravel Co.
694	Pike	Pke-V	IM-1330	Valley Materials Co.
695	Fairfield	Fd-VJ	IM-1339	Van Johnson Construction, Inc.
696	Fulton	Ftn-W	IM-1328	Wylie and Sons Landscaping
697	Fulton	Ftn-WY	IM-1334	Wylie and Sons Landscaping
698	Lucas	Ls-WY	IM-1321	Wylie and Sons Landscaping
699	Richland	Rd-TB	IM-1343	The Terry Byrne Mining Co.
700	Hamilton	Hmn-NB	IM-1337	New Baltimore CDD Landfill, Ltd.
701	Ashtabula	Asa-JS	IM-1360	Joe Simak & Sons Trucking, Inc.
702	Athens	As-BT	IM-1350	Black Top Contracting, Inc.
703	Carroll	Cl-PD	IM-1352	Power Development Corp.
704	Clark	Ck-A	IM-1359	American Excavating, Inc.
705	Columbiana	Ca-XL	IM-1347	XL Sand & Gravel
706	Fulton	Ftn-W1	IM-2007	Wylie and Sons Landscaping
707	Knox	Kx-S	IM-2000	Small's Sand & Gravel, Inc.
708	Lucas	Ls-ST	IM-2001	Sandman Trucking, Inc.
709	Lucas	Ls-T	IM-2012	E. H Taylor, Inc.
710	Portage	Pe-A	IM-1362	American Sand & Gravel, Inc.
712	Tuscarawas	Ts-S2	IM-1356	Sidco Development, Inc.
713	Noble	Ne-SS	IM-2006	Sharon Stone Co.
714	Allen	An-W	IM-2069	Ward Materials, Inc.
715	Ashtabula	Asa-ST1	IM-2023	Joe Simak & Sons Trucking, Inc.
716	Butler	Br-B	IM-2029	Broshear Contractors, Inc.
717	Carroll	Cl-O	IM-2082	Oster Sand & Gravel, Inc.
718	Clark	Ck-B	IM-2026	Brett Baisen
719	Clark	Ck-LG	IM-2073	Louis A. Green and Associates
720	Columbiana	Ca-H	IM-2027	Harvest Sand & Gravel, Inc.
721	Columbiana	Ca-H1	IM-2033	Hartley Gravel
722	Coshocton	Cn-SR	IM-2065	Stewart & Reichman, Inc.
723	Coshocton	Cn-WA	IM-2036	William Albert, Inc.
724	Crawford	Cd-G	IM-0693	Gibson Sand & Gravel Co.
725	Fulton	Ftn-BL2	IM-2025	B & L Excavating
726	Gallia	Ga-JE	IM-2034	Jaclib Enterprises, Inc.
727	Holmes	Hs-F1	IM-2045	Feikert Sand & Gravel, Inc.
728	Knox	Kx-DH	IM-2078	Darel L. Hathaway
729	Licking	Lg-KMA	IM-2043	K. M.A. Services
730	Logan	Lgn-J	IM-2053	Betty Sewell and Rebecca Johnson
731	Logan	Lgn-L	IM-2064	Logan Construction
732	Lucas	Ls-BE	IM-2054	Bihn Excavating, Inc.
733	Lucas	Ls-ST1	IM-2060	Sandman Trucking, Inc.
734	Montgomery	My-B	IM-2044	Barrett Paving Materials, Inc.
735	Morgan	Mon-CS1	IM-2049	Chesterhill Stone Co.
736	Pickaway	Pky-RR	IM-2040	Roy M. Roush

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737	Portage	Pe-H	IM-2039	Hilltop Aggregate, Inc.
738	Portage	Pe-J	IM-2051	Janson & Sons Corp.
739	Portage	Pe-R	IM-2037	Rockwell Sand & Gravel, Inc.
740	Portage	Pe-V	IM-2061	Valley Brook Sand & Gravel, Inc.
741	Preble	Pre-T	IM-2036	Thomas Sand & Gravel
742	Shelby	Shy-SC1	IM-2017	Spring Creek Corp.
743	Tuscarawas	Ts-K	IM-2050	Krizman Enterprises
744	Tuscarawas	Ts-N	IM-2032	J. E. Nicolozakes Co.
745	Portage	Pe-P	IM-1322	Patrick Excavating, Inc.

SANDSTONE/CONGLOMERATE ▼

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
4	Coshocton	Cn-13	IM-397	Briar Hill Stone Co.
5	Coshocton	Cn-659	IM-232	Briar Hill Stone Co.
6	Coshocton	Cn-686	IM-504	Briar Hill Stone Co.
7	Coshocton	Cn-692	IM-294	Briar Hill Stone Co.
8	Coshocton	Cn-695	IM-402	Briar Hill Stone Co.
13	Cuyahoga	Cya-42	IM-686	Boyas Excavating, Inc.
14	Erie	Ee-21	IM-416	Cleveland Quarries
17	Geauga	Gea-3	IM-89	Best Sand Corp.
18	Geauga	Gea-1	IM-163	R. W. Sidley, Inc.
19	Holmes	Hs-49	IM-418	Briar Hill Stone Co.
20	Huron	Hrn-8	IM-268	Mesenburg Bros., Inc.
23	Knox	Kx-12	IM-445	Briar Hill Stone Co.
24	Knox	Kx-1	IM-269	Oglebay Norton Industrial Sands, Inc.
27	Lorain	Ln-3	IM-415	Cleveland Quarries
30	Mahoning	Mg-62	IM-599	Gwin Contracting Co.
34	Ross	Rs-16	IM-172	Best Sand Corp.
36	Scioto	So-48	IM-140	Waller Bros. Stone Co.
37	Scioto	So-76	IM-141	Waller Bros. Stone Co.
38	Scioto	So-82	IM-158	Waller Bros. Stone Co.
41	Tuscarawas	Ts-1818	IM-9	Kimble Clay & Limestone Co.
42	Tuscarawas	Ts-1660	IM-68	U.S. Silica Co.
43	Washington	Wn-45	IM-125	Alan Stone Co., Inc.
44	Coshocton	Cn-815	IM-939	Briar Hill Stone Co.
45	Pike	Pke-31	IM-835	Best Sand Corp.
46	Coshocton	Cn-809	IM-909	Briar Hill Stone Co.
47	Columbiana	Ca-970	IM-1024	M & M Builders Supply Co.
48	Perry	Py-344	IM-1014	Oglebay Norton Industrial Sands, Inc.
49	Summit	St-24	IM-239	Riverside Sand & Gravel Co., Inc.
50	Geauga	Gea-N	IM-1123	Newbury Sand & Gravel
51	Belmont	Bt-1193	IM-1117	Alan Stone Co., Inc.
53	Mahoning	Mg-631	IM-1103	East Fairfield Coal Co.
54	Tuscarawas	Ts-2032	IM-1141	Slankard Dozer Service, Inc.
55	Tuscarawas	Ts-1982	IM-621	L & M Mineral Co.
56	Belmont	Bt-1190	IM-1089	Sidwell Materials, Inc.
57	Columbiana	Ca-888	IM-1181	D. & D. Mining Co.

**NUMERICAL INDEX OF OPERATORS OF MINES
SHOWN ON 2000 MINERAL INDUSTRIES MAP OF OHIO, BY COMMODITY**

SANDSTONE/CONGLOMERATE—Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
58	Geauga	Gea-S	IM-161	R. W. Sidley, Inc.
60	Lake	Lke-K	IM-859	Keeney Sand & Stone, Inc.
62	Tuscarawas	Ts-1517	IM-46	Belden Brick Co.
64	Wayne	We-26	IM-690, IM-1210	Mt. Eaton Reclamation, Inc.
65	Columbiana	Ca-982	IM-1108	Leetonia Sand & Gravel Co., Inc.
66	Lorain	Ln-14	IM-1205	Golden Crescent Construction, Inc.
68	Summit	St-60	IM-1206	Ohio Bulk Transfer Co.
70	Portage	Pe-9	IM-119	Oscar Brugmann Sand & Gravel, Inc.
71	Tuscarawas	Ts-1841	IM-45	Belden Brick Co.
72	Columbiana	Ca-S	IM-1258	Solomon's Mines, Inc.
73	Scioto	So-BC	IM-1252	Boone Coleman Construction, Inc.
74	Wayne	We-EA	IM-1259	E. A. Construction, Inc.
75	Lorain	Ln-J	IM-1300	Johnson Stone Products, Inc.
76	Guernsey	Gy-S	IM-1306	R. G. Silvestri Enterprises
77	Trumbull	Tl-12	IM-131	Samco, Inc.
78	Tuscarawas	Ts-1646	IM-44	Belden Brick Co.
80	Washington	Wn-F	IM-1208	David L. Florence
81	Perry	Py-SU	IM-1340	Suburban South Recycling & Disposal Facility
82	Pike	Pke-S	IM-1348	Schrader and Son, Inc.

CLAY/SHALE □

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
1	Ashland	Ald-1	IM-334	London Tile Co.
2	Auglaize	Ae-7		Sandkuhl Clay Works, Inc.
4	Columbiana	Ca-505	IM-13, IM-936	State Line Resources, Inc.
5	Columbiana	Ca-205	IM-74	Summitville Tiles, Inc.
6	Coshocton	Cn-787	IM-610	General Clay Products Corp.
7	Cuyahoga	Cya-19	IM-95	Hydraulic Press Brick Co.
10	Greene	Ge-8	IM-364	Southdown Inc.
11	Harrison	Hn-152	IM-42	Bowerston Shale Co.
17	Holmes	Hs-56		Clark Clay Inc.
19	Holmes	Hs-67	IM-3, IM-768	Holmes Limestone Co.
23	Jackson	Jkn-367	D-594, D-968, D-1083	Waterloo Coal Co., Inc.
31	Licking	Lg-501	IM-257	Bowerston Shale Co.
34	Mahoning	Mg-608	IM-4	ESSROC Cement Corp.
36	Marion	Mn-7	IM-309	Glen-Gery Corp.
37	Medina	Ma-6	IM-455	General Clay Products Corp.
38	Muskingum	Mum-776	IM-256	Bowerston Shale Co.
41	Noble	Ne-66	IM-664	Towne Square Products
42	Paulding	Pg-1	IM-513	Lafarge Corp.
53	Stark	Sk-217	D-0938	Republic Services, Inc.
56	Tuscarawas	Ts-1517	IM-46	Belden Brick Co.
57	Tuscarawas	Ts-1646	IM-44	Belden Brick Co.
58	Tuscarawas	Ts-1841	IM-45	Belden Brick Co.
59	Tuscarawas	Ts-1939 T	IM-47	Belden Brick Co.
60	Tuscarawas	Ts-1960	IM-48	Belden Brick Co.
63	Tuscarawas	Ts-1818	IM-9	Kimble Clay & Limestone Co.

**NUMERICAL INDEX OF OPERATORS OF MINES
SHOWN ON 2000 MINERAL INDUSTRIES MAP OF OHIO, BY COMMODITY**

CLAY/SHALE—Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
64	Tuscarawas	Ts-1884	IM-6	L & M Mineral Co.
65	Tuscarawas	Ts-1914	D-0701	L & M Mineral Co.
67	Tuscarawas	Ts-1557, Ts-1558	IM-52	Stone Creek Brick Co.
71	Tuscarawas	Ts-540	IM-28	Zoar Mining Co.
73	Wyandot	Wt-7	IM-407	General Clay Products Corp.
76	Stark	Sk-235	IM-945	Holmes Limestone Co.
77	Tuscarawas	Ts-1982	IM-621	L & M Mineral Co.
79	Columbiana	Ca-947	IM-935	Dome Minerals, Inc.
81	Athens	As-594		Athens Hocking Reclamation Center
82	Ashtabula	Asa-14	IM-563	Janson's Soil Service, Inc.
85	Tuscarawas	Ts-520	IM-214	Blue Jay Enterprises of Ts. Co., Inc.
86	Geauga	Gea-9	IM-132	Soltis Sand & Gravel
87	Athens	As-595	IM-1087	Cochran Transportation Services, Inc.
88	Coshocton	Cn-828	IM-1026	William Albert, Inc.
89	Erie	Ee-32	IM-1077	Speer Brothers, Inc.
90	Greene	Ge-44		Southdown Inc.
92	Lake	Lke-M	IM-1059	Mitchell Transport, Inc.
93	Lawrence	Lc-B	IM-1188, D-0746	Belville Mining Co., Inc.
99	Pike	Pke-26	IM-142	Valley Materials Co.
101	Preble	Pre-9	IM-1095	Loxley Aggregates, Inc.
105	Belmont	Bt-1190	IM-1089	Sidwell Materials, Inc.
106	Columbiana	Ca-970	IM-1024	M & M Builders Supply Co.
107	Mahoning	Mg-EM	IM-1056	ESSROC Cement Corp.
108	Perry	Py-338	IM-1092	Bearcreek Clay Co.
109	Harrison	Hn-B	IM-1020	Bowerston Shale Co.
110	Hocking	Hg-330	IM-1013	General Clay Products Corp.
111	Holmes	Hs-96	IM-997	Spring Run Gravel
114	Richland	Rd-R	IM-1035	Richland Moulded Brick Co.
116	Portage	Pe-61	IM-1064	Red Brush Peat Co.
118	Mahoning	Mg-631	IM-1103	East Fairfield Coal Co.
122	Muskingum	Mum-904	IM-1127	Valley Clay Mining Co.
123	Stark	Sk-246	IM-2024	American Landfill, Inc.
128	Athens	As-533	IM-17	Waterloo Coal Co., Inc.
130	Columbiana	Ca-348	IM-976	D. & D. Mining Co.
135	Mahoning	Mg-632	IM-808	Solomon's Mines, Inc.
136	Ottawa	Oa-19	IM-1153	Brush Wellman, Inc.
137	Perry	Py-344	IM-1014	Ogleby Norton Industrial Sands, Inc.
138	Perry	Py-S1	IM-1183	Swingle Drilling, Inc.
144	Wayne	We-26	IM-690, IM-1210	Mt. Eaton Reclamation Inc.
145	Jackson	Jkn-CH1	IM-1182	Cedar Heights Clay Co.
146	Stark	Sk-247	D-0929	Buckeye Industrial Mining Co.
147	Tuscarawas	Ts-B	IM-49	Belden Brick Co.
148	Knox	Kx-K	IM-870	Knox County Board of Commissioners
150	Ross	Rs-T	IM-1189	Tackett Builders
151	Tuscarawas	Ts-H1	IM-927	Holmes Limestone Co.
152	Washington	Wn-1010	IM-1163	M & J Sand & Gravel, Inc.
153	Champaign	Cpn-20	IM-482	Moore's Excavating Co.
155	Fairfield	Fd-16	IM-1156	James E. Downard
156	Lucas	Ls-13	IM-492	Seaway Sand & Stone, Inc.
157	Montgomery	My-CW	IM-878	Carter & Carter, Inc.

**NUMERICAL INDEX OF OPERATORS OF MINES
SHOWN ON 2000 MINERAL INDUSTRIES MAP OF OHIO, BY COMMODITY**

CLAY/SHALE—Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
158	Montgomery	My-W	IM-1207	Weidle Sand & Gravel, Inc.
161	Portage	Pe-89	IM-1142	Green Oaks Potting Products, Inc.
162	Stark	Sk-BE	IM-1202	Beaver Excavating, Inc.
163	Washington	Wn-F	IM-1208	David L. Florence
164	Columbiana	Ca-888	IM-1181	D. & D. Mining Co.
165	Wayne	We-25	IM-1209	Craigton Shale Co.
166	Ashtabula	Asa-18	IM-949	Joe Simak & Sons Trucking, Inc.
171	Hocking	Hg-G	IM-1201	Good Builders, Inc.
173	Perry	Py-V	IM-1245	Valley Clay Mining Co.
174	Stark	Sk-K	IM-1236	Koch-Glitsch, Inc.
177	Tuscarawas	Ts-BB	IM-1221	Belden Brick Co.
178	Columbiana	Ca-987	D-0928	Buckeye Industrial Mining Co.
179	Wayne	We-11	IM-547	Prairie Lane Sand & Gravel Co.
182	Lawrence	Le-PH	IM-1268	P & H Construction
184	Trumbull	Tr-12	IM-131	Samco, Inc.
185	Wayne	We-EA	IM-1259	E. A. Construction, Inc.
186	Columbiana	Ca-BIM	IM-1271	Buckeye Industrial Mining Co.
188	Harrison	Hn-CD	D-1105	Waste Management/Chambers Development of Ohio, Inc.
189	Stark	Sk-BI	D-1043	Buckeye Industrial Mining Co.
190	Hamilton	Hmn-72	IM-1264	Rumpke Mountain Mining Co.
193	Wayne	We-15	IM-398	Zollinger Sand & Gravel Co.
194	Columbiana	Ca-S	IM-1258	Solomon's Mines, Inc.
195	Jackson	Jkn-CH2	IM-1302	Cedar Heights Clay Co.
197	Noble	Ne-S	IM-913	Sharon Stone Co.
198	Ottawa	Oa-BF	IM-1287	Browning-Ferris Industries of Ohio, Inc.
199	Portage	Pe-101	IM-1154	D & K Materials, Inc.
200	Stark	Sk-B	D-1123	Buckeye Industrial Mining Co.
201	Tuscarawas	Ts-BJ	IM-1285	Blue Jay Enterprises of Ts. Co., Inc.
203	Stark	Sk-208	D-1015	ENZ, Inc.
204	Portage	Pe-84	IM-868	Twinsburg Development Corp.
205	Perry	Py-D1	IM-1304	Bearcreek Clay Co.
206	Fairfield	Fd-VJ	IM-1339	Van Johnson Construction, Inc.
207	Madison	Mdn-11	IM-1063	Tuffco Sand & Gravel, Inc.
208	Mahoning	Mg-54	IM-93	Honey Creek Stone Co.
209	Mercer	Mr-C	IM-1341	Countryside Waste Services, Inc.
210	Muskingum	Mum-L	IM-1344	Luburgh Inc.
211	Portage	Pe-18	IM-193	Sober Sand & Gravel Co.
212	Portage	Pe-P	IM-1322	Patrick Excavating, Inc.
213	Perry	Py-SU	IM-1340	Suburban South Recycling & Disposal Facility
214	Huron	Hrn-M	IM-1338	Marta Track Constructors, Inc.
216	Hamilton	Hmn-NB	IM-1337	New Baltimore CDD Landfill, Ltd.
217	Defiance	De-3	IM-1351	General Motors Power Train
218	Franklin	Fn-SW	IM-1354	Solid Waste Authority of Central Ohio
219	Greene	Ge-W	IM-645	Joann O. Weddle
221	Putnam	Pm-P	IM-2002	Putnam County Board of Commissioners
222	Stark	Sk-BIM	IM-1361	Buckeye Industrial Mining Co.
223	Williams	Ws-N	IM-1291	Andy Nixon Contractors, Inc.
224	Wyandot	Wt-CD	IM-2016	County Disposal (Ohio), Inc.
225	Lucas	Ls-12	IM-953	Barrett Paving Materials, Inc.
226	Athens	As-H	IM-2081	J. B. Hayes Excavating and Pipeline

**NUMERICAL INDEX OF OPERATORS OF MINES
SHOWN ON 2000 MINERAL INDUSTRIES MAP OF OHIO, BY COMMODITY**

CLAY/SHALE—Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
227	Brown	Br-W	IM-2076	Rumpke Waste, Inc.
228	Butler	Br-K	IM-2041	Kelchner Environmental, Inc.
229	Licking	Lg-NU	IM-2046	Nuway Services, Inc.
230	Jackson	Jk-CH3	IM-2035	Cedar Heights Clay Co.
231	Stark	Sk-CR	IM-2020	Countywide Recycling and Disposal Facility

**NUMERICAL INDEX OF OPERATORS OF MINES
SHOWN ON 2000 MINERAL INDUSTRIES MAP OF OHIO, BY COMMODITY**

SALT ■ ■

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
1	Cuyahoga	Cya-30		Cargill Incorporated
2	Lake	Lke-6		Morton International, Inc.
3	Licking	Lg-45		R. H. Penick Co.
4	Summit	St-9127		Cargill Incorporated
5	Wayne	We-9129		Morton International, Inc.

GYPSUM ◆

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
1	Ottawa	Oa-2	IM-344	BPB-Celotex

PEAT ◇

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Mineral Resources Management permit number</i>	<i>Name of operator</i>
2	Champaign	Cpn-9		Sphagnum Moss Peat Farm
4	Williams	Ws-17		Lingvai Peat Co.
7	Portage	Pc-89	IM-1142	Green Oaks Potting Products, Inc.
9	Portage	Pc-61	IM-1064	Red Brush Peat Co.
10	Montgomery	My-41	IM-360	Moraine Materials Co., Inc.



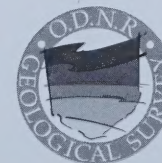
STATE OF OHIO
 Bob Taft, Governor
 DEPARTMENT OF NATURAL RESOURCES
 Samuel W. Speck, Director
 DIVISION OF GEOLOGICAL SURVEY
 Thomas M. Berg, Chief

MINERAL INDUSTRIES MAP OF OHIO

2000

COMPILED BY
 MARK E. WOLFE

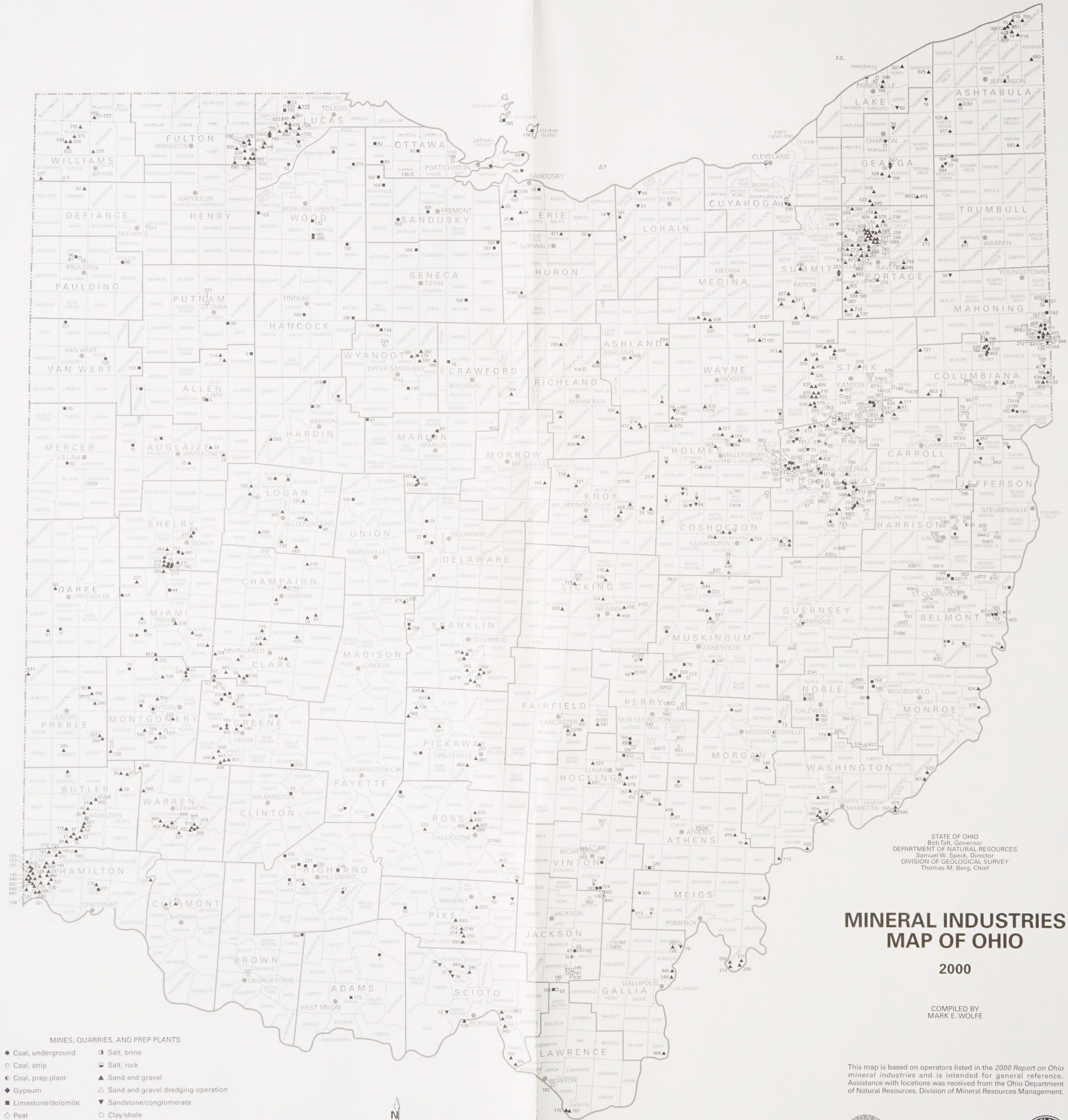
This map is based on operators listed in the *2000 Report on Ohio mineral industries* and is intended for general reference. Assistance with locations was received from the Ohio Department of Natural Resources, Division of Mineral Resources Management.



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 Updated by Robert L. Stewart, Sr.

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Locations are approximate. Numbers opposite symbols are map-location numbers assigned to operators listed in the alphabetical directories of the Division of Geological Survey's *Report on Ohio mineral industries*. The operator of a mine or quarry may be determined from the directories by use of the map-location commodity symbol, number, and county name. A list of operators by commodity and map-location number is also provided.



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